ID02 SAXS Related Publications: (Last update: August 2020)

Article titles in bold indicate the significance either entirely or an important part carried out using ID02 instrument.

2020

1. Asor R., Khaykelson D., Ben-nun-Shaul O., Levi-Kalisman Y., Oppenheim A., and Raviv U.,
pH stability and disassembly mechanism of wild-type simian virus 40,
Soft Matter, **16**, 2803 (2020).

2. Asor R., Schlicksup C.J., Zhao Z.C., Zlotnick A., and Raviv U.,
Rapidly forming early intermediate structures dictate the pathway of capsid assembly,
J. Am. Chem. Soc., **142**, 7868 (2020).

3. Baccile N., Zinn T.,Laurent G.P.,Ben Messaoud G.,Cristiglio V.,and Fernandes F.M.,
Unveiling the interstitial pressure between growing ice crystals during ice-templating using a lipid lamellar probe,
J. Phys. Chem. Lett., **11**, 1989 (2020).

4. Bareigts G., Kiatkiakajorn P.C., Li J., Botet R., Sztucki M., Cabane B., Goehring L., and Labbez C.,
Packing polydisperse colloids into crystals: When charge-dispersity matters,
Phys. Rev. Lett., **124**, 058003 (2020).

5. Begam N., Matsarskaia O., Sztucki M., Zhang F.J., and Schreiber F.,
Unification of lower and upper critical solution temperature phase behavior of globular protein solutions in the presence of multivalent cations,
Soft Matter, **16**, 2128 (2020).

6. Begam, N., Da Vela, S., Matsarskaia, O., Braun, M. K., Mariani, A., Zhang, F., and Schreiber, F.,
Packing and Dynamics of a Protein Solution Approaching the Jammed State,
Soft Matter, (2020).

7. Brunello E., Fusi L., Ghisleni A., Park-Holohan S.J., Ovejero J.G., Narayanan T., and Irving M.,
Myosin filament-based regulation of the dynamics of contraction in heart muscle,
PNAS, **117**, 8177 (2020).

8. Budroni Marcello A., Torbensen K., Ristori S., Abou-Hassan A., and Rossi F.,
Membrane structure drives synchronization patterns in arrays of diffusively coupled self-oscillating droplets,
J. Phys. Chem. Lett., **11**, 2014 (2020).

9. Byard S.J., O'Brien C.T., Derry M.J., Williams M., Mykhaylyk O.O., Blanazs A., and Armes S.P.,
Unique aqueous self-assembly behavior of a thermoresponsive diblock copolymer,
Chem. Sci., **11**, 396 (2020).

10. Carl, N., Prévost, S., Schweins, R., and Huber, K.,
Contrast variation of micelles composed of Ca 2+ and block copolymers of two negatively charged polyelectrolytes,
Colloid Polym. Sci., **298**, 663 (2020).

11. Cheng, Q., Chen, P., Ye, D., Wang, J., Song, G., Liu, J., Chen, Z., Chen, L., Zhou, Q., Chang, C., and Zhang, L.,
The conversion of nanocellulose into solvent-free nanoscale liquid crystals by attaching long side-arms for multi-responsive optical materials,
J. Mater. Chem. C (2020).

12. Cornel E.J., O'Hora P.S., Smith T., Growney D.J., Mykhaylyk O.O., and Armes S.P., *SAXS studies of the thermally-induced fusion of diblock copolymer spheres: Formation of hybrid nanoparticles of intermediate size and shape*,
Chem. Sci., **11**, 4312 (2020).

13. Costabile G., Provenzano R., Azzalin A., Scoffone V.C., Chiarelli L.R., Rondelli V., Grillo I., Zinn T., Lepioshkin A., Savina S., Miró A., Quaglia F., Makarov V., Coenye T., Brocca P., Riccardi G., Buroni S., and Ungaro F.,
PEGylated mucus-penetrating nanocrystals for lung delivery of a new FtsZ inhibitor against Burkholderia cenocepacia infection,
Nanomed.-Nanotechnol., **23**, 102113 (2020).

14. Da Vela, S., Begam, N., Dyachok, D., Schäufele, R. S., Matsarskaia, O., Feustel, M. K., Girelli, A., Ragulskaya, A., Mariani, A., Zhang, F., and Schreiber, F.,
Interplay Between Glass Formation and Liquid-Liquid Phase Separation Revealed by the Scattering Invariant,
J. Phys. Chem. Lett. (2020).

15. Doekhie, A., Dattani, R., Chen, Y. C., Yang, Y., Smith, A., Silve, A. P., Koumanov, F., Wells, S. A. , Edler, K. J., Marchbank, K. J., van den Elsen, J. M. H., and Sartbaeva, A.,
Ensilicated tetanus antigen retains immunogenicity: in vivo study and time-resolved SAXS characterization,

Sci. Rep., **10**, 9243 (2020).

16. Djukic, S., Bocahut, A., Bikard, J., and Long, D. R.,
Study of Damage Mechanisms of Amorphous and Low Semicrystalline Polymers under Tensile Deformation by Ultrasmall-Angle X-ray Scattering,
Macromolecules, **53**, 5538 (2020).

17. Edwards-Gayle C.J.C., Barrett G., Roy S., Castelletto V., Seitsonen J., Ruokolainen J., and Hamley I.W.,
Selective antibacterial activity and lipid membrane interactions of arginine-rich amphiphilic peptides,
ACS Appl. Bio Mater., **3**, 1165 (2020).

18. Falco G., Simonin L., Pensec S., Dalmas F., Chenal J.M., Bouteiller L., and Chazeau L.,
Linear and nonlinear viscoelastic properties of segmented silicone-urea copolymers: Influence of the hard segment structure,
Polymer, **186**, 122041 (2020).

19. Garcia X., Seyve L., Tellier Z., Chevreux G., Bihoreau N., Polack B., and Caton F.,
Aggregates dramatically alter fibrin ultrastructure,
Biophys. J., **118**, 172 (2020).

20. Geisler R., Prévost S., Dattani R., and Hellweg T.,
Effect of cholesterol and ibuprofen on DMPC- beta-aescin bicelles: A temperature-dependent wide-angle X-ray scattering study,
Crystals, **10**, 401 (2020).

21. Gibaud T., Dages N., Lidon P., Jung G., Ahoure L.C., Sztucki M., Poulesquen A., Hengl N., Pignon F., and Manneville S.,
Rheoacoustic gels: Tuning mechanical and flow properties of colloidal gels with ultrasonic vibrations,
Phys. Rev. X, **10**, 011028 (2020).

22. Housni, S., Abramson, S., Guigner, J. M., Levitz, P., and Michot, L.,
Flocculation and magnetically-assisted sedimentation of size-sorted beidellite platelets mixed with maghemite nanoparticles,
Nano Res., (2020).

23. Ianiro A., Chi M., Hendrix M.M.R.M., Koc A.V., Eren E.D., Sztucki M., Petukhov A.V., de With G., Esteves A.C.C., and Tuinier R.,
Block copolymer hierarchical structures from the interplay of multiple assembly pathways,
Polym. Chem., **11**, 2305 (2020).

24. Jensen, G. V., Pedersen, J. N., Otzen, D. E., and Pedersen, J. S.,
Multi-Step Unfolding and Rearrangement of α-Lactalbumin by SDS Revealed by Stopped-Flow SAXS,
Front. Mol. Biosci., **7**, 125 (2020).

25. Kapuscinski M., Agthe M., Lv Z.P., Liu Y., Segad M., and Bergström L.,
Temporal evolution of superlattice contraction and defect-induced strain anisotropy in mesocrystals during nanocube self-assembly,
ACS Nano, **14**, 5337 (2020).

26. Katava M., Marchi M., Madern D., Sztucki M., Maccarini M., Sterpone F.,
Temperature unmasks allosteric propensity in a thermophilic malate dehydrogenase via dewetting and collapse,
J. Phys. Chem., B **124**, 1001 (2020).

27. Keith A.N., Vatankhah-Varnosfaderani M., Clair C., Fahimipour F., Dashtimoghadam E., Lallam A., Sztucki M., Ivanov D.A., Liang H.Y., Dobrynin A.V., and Sheiko S.S.,
Bottlebrush bridge between soft gels and firm tissues,
ACS Central Sci., **6**, 413 (2020).

28. Komorowski K., Schaeper J., Sztucki M., Sharpnack L., Brehm G., Köster S., and Salditt T.,
Vesicle adhesion in the electrostatic strong-coupling regime studied by time-resolved small-angle X-ray scattering,
Soft Matter, **16**, 4142 (2020).

29. Kwok S., Botet R., Sharpnack L., and Cabane B.,
Apollonian packing in polydisperse emulsions,
Soft Matter, **16**, 2426 (2020).

30. Kwok, S., Botet, R., Shglabow, A., and Cabane, B.,
Apollonian emulsions,
Europhys. Lett., **130**, 38001 (2020).

31. Litvinov, V., Deblieck, R., Clair, C., Van den fonteyne, W., Lallam, A., Kleppinger, R., Ivanov, D.A., Ries M.E., and Boerakker, M.,
Molecular Structure, Phase Composition, Melting Behavior, and Chain Entanglements in the Amorphous Phase of High-Density Polyethylenes,
Macromolecules, **53**, 5418 (2020).

32. Löf D., Hamieau G., Zalich M., Ducher P., Kynde S., Midtgaard S.R., Parasida C.F., Arleth L., and Jensen G.V.,

Dispersion state of TiO2 pigment particles studied by ultra-small-angle X-ray scattering revealing dependence on dispersant but limited change during drying of paint coating,
Prog. Org. Coat., **142**, 105590 (2020).

33. Narayanan T., and Konovalov O.,
Synchrotron scattering methods for nanomaterials and soft matter research,
Materials, **13**, 752 (2020).

34. Narayanan, T., Dattani, R., Möller, J., and Kwaśniewski, P.,
A microvolume shear cell for combined rheology and x-ray scattering experiments,
Rev. Sci. Instrum., **91**, 085102 (2020).

35. Neouze, M. A., Freitas, A. P., Ramamoorthy, R. K., Mohammedi, R., Larquet, E., Tusseau-Nenez, S., Carrière D., and Gacoin, T.,
Toward a chemical control of colloidal YVO_4 nanoparticles microstructure,
Langmuir, **36**, 9124 (2020).

36. Oliver, R. C., Potrzebowski, W., Najibi, S. M., Nors Pedersen, M., Arleth, L., Mahmoudi, N., and André, I.,
Assembly of Capsids from Hepatitis B Virus Core Protein Progresses through Highly Populated Intermediates in Presence and Absence of RNA,
ACS Nano, (2020).

37. Panahandeh S., Li S., Marichal L., Leite Rubim R., Tresset G., and Zandi R.,
How a virus circumvents energy barriers to form symmetric shells,
ACS Nano, **14**, 3170 (2020).

38. Pedersen J.N., Lyngsø J., Zinn T., Otzen D.E., and Pedersen J.S.,
A complete picture of protein unfolding and refolding in surfactants,
Chem. Sci., **11**, 699 (2020).

39. Ramamoorthy R.K., Levesque M., Belloni L., and Carrière D.,
Structure factor of EuCl3 aqueous solutions via coupled molecular dynamics simulations and integral equations,
J. Phys. Chem. B, **124**, 1787 (2020).

40. Rinaldi F., Hanieh P.N., Imbriano A., Passeri D., Del Favero E., Rossi M., Marianecci C., De Panfilis S., and Carafa M.,
Different instrumental approaches to understand the chitosan coated niosomes/mucin interaction,
J. Drug Delivery Sci. Tech., **55**, 101339 (2020).

41. Rüter, A., Kuczera, S., Stenhammar, J., Theyencheri, N., Zinn, T., and Olsson, U., *Tube to ribbon transition in a self-assembling model peptide system*, Phys. Chem. Chem. Phys., (2020).

42. Rymaruk M.J., O'Brien C.T., Brown S.L., Williams C.N., and Armes S.P., RAFT dispersion polymerization of benzyl methacrylate in silicone oil using a *silicone-based methacrylic stabilizer provides convenient access to spheres, worms, and vesicles*, Macromolecules, **53**, 1785 (2020).

43. Semeraro E.F., Hengl N., Karrouch M., Michot L.J., Paineau E., Jean B., Putaux J.L., Lancelon-Pin C., Sharpnack L., and Pignon F., *Layered organization of anisometric cellulose nanocrystals and beidellite clay particles accumulated near the membrane surface during cross-flow ultrafiltration: In situ SAXS and ex situ SEM/WAXD characterization*, Colloid Surface A, **584**, 124030 (2020).

44. Smith G.N.,Canning S.L.,Derry M.J.,Mykhaylyk O.O.,Norman S.E.and Armes S.P., *Influence of an ionic comonomer on polymerization-induced self-assembly of diblock copolymers in non-polar media*, Polym. Chem., **11**, 2605 (2020).

45. Staropoli M., Gerstner D., Radulescu A., Sztucki M., Duez B., Westermann S., Lenoble D., and Pyckhout-Hintzen W., **Decoupling the contributions of ZnO and silica in the characterization of industrially-mixed filled rubbers by combining small angle neutron and X-Ray scattering,** Polymers, **12**, 502 (2020).

46. Vilotte, A., Bodiguel, H., Ako, K., Gunes, D. Z., Schmitt, C., and de Loubens, C., *Kinetic and structural characterization of whey protein aggregation in a millifluidic continuous process*, Food Hydrocolloids, **110**, 106137 (2021).

47. Waltmann C., Asor R., Raviv U., and Olvera de la Cruz M., **Assembly and stability of simian virus 40 polymorphs**, ACS Nano, **14**, 4430 (2020).

48. Zinn, T., Sharpnack, L., and Narayanan, T., **Phoretic dynamics of colloids in a phase separating critical liquid mixture**, Phys. Rev. Res., **2**, 033177 (2020).

2019

49. Amann M., Diget J.S., Lyngsø J., Pedersen J.S., Narayanan T., and Lund R.,
Kinetic pathways for polyelectrolyte coacervate micelle formation revealed by time-resolved synchrotron SAXS,
Macromolecules, **52**, 8227 (2019).

50. Asor R., Khaykelson D., Ben-nun-Shaul O., Oppenheim A., and Raviv U.,
Effect of calcium ions and disulfide bonds on swelling of virus particles,
ACS Omega, **4**, 58 (2019).

51. Asor R., Selzer L., Schlicksup C.J., Zhao Z., Zlotnick A., and Raviv U.,
Assembly reactions of hepatitis B capsid protein into capsid nanoparticles follow a narrow path through a complex reaction landscape,
ACS Nano, **13**, 7610 (2019).

52. Astolfi P., Giorgini E., Adamo F.C., Vita F., Logrippo S., Francescangeli O., and Pisani M.,
Effects of a cationic surfactant incorporation in phytantriol bulk cubic phases and dispersions loaded with the anticancer drug 5-fluorouracil,
J. Mol. Liquids, **286**, 110954 (2019).

53. Baccile N., Ben Messaoud G., Zinn T., and Fernandes F.M.,
Soft lamellar solid foams from ice-templating of self-assembled lipid hydrogels: Organization drives the mechanical properties,
Materials Horizons, **6**, 2073 (2019).

54. Balchunas A.J., Cabanas R.A., Zakhary M.J., Gibaud T., Fraden S., Sharma P., Hagan M.F., and Dogic Z.,
Equation of state of colloidal membranes,
Soft Matter, **15**, 6791 (2019).

55. Banc A., Pincemaille J., Costanzo S., Chauveau E., Appavou M.S., Morel M.H., Menut P., and Ramos L.,
Phase separation dynamics of gluten protein mixtures,
Soft Matter, **15**, 6160 (2019).

56. Bannister S., Böhm E., Zinn T., Hellweg T., and Kottke T.,
Arguments for an additional long-lived intermediate in the photocycle of the full-length aureochrome 1c receptor: A time-resolved small-angle X-ray scattering study,
Structural Dynamics, **6**, 034701 (2019).

57. Barriga H.M.G., Ces O., Law R.V., Seddon J.M., and Brooks N.J.,

Engineering swollen cubosomes using cholesterol and anionic lipids,
Langmuir, **35**, 16521 (2019).

58. Bauer P.S., Amenitsch H., Baumgartner B., Koberl G., Rentenberger C., and Winkler P.M.,
In-situ aerosol nanoparticle characterization by small angle X-ray scattering at ultra-low volume fraction,
Nature Commun., **10**, 1122 (2019).

59. Benane B., Baeza G.P., Chal B., Roiban L., Meille S., Olagnon C., Yrieix B., and Foray G.,
Multiscale structure of super insulation nano-fumed silicas studied by SAXS, tomography and porosimetry,
Acta Materialia, **168**, 401 (2019).

60. Bender P., Zákutná D., Disch S., Marcano L., Venero D.A., and Honecker D.,
Using the singular value decomposition to extract 2D correlation functions from scattering patterns,
Acta Cryst. A, **75**, 766 (2019).

61. Bonnevide M., Jimenez A.M., Dhara D., Phan T.N.T., Malicki N., Abbas Z.M., Benicewicz B., Kumar S.K., Couty M., Gigmes D., and Jestin J.,
Morphologies of polyisoprene-grafted silica nanoparticles in model elastomers,
Macromolecules, **52**, 7638 (2019).

62. Brien M.N., Enciso-Romero J., Parnell A.J., Salazar P.A., Morochz C., Chalá D., Bainbridge H.E., Zinn T., Curran E.V., and Nadeau N.J.,
Phenotypic variation in Heliconius erato crosses shows that iridescent structural colour is sex-linked and controlled by multiple genes,
Interface Focus, **9**, 20180047 (2018).

63. Brotherton E.E., Hatton F.L., Cockram A.A., Derry M.J., Czajka A., Cornel E.J., Topham P.D., Mykhaylyk O.O., and Armes S.P.,
In situ small-angle X-ray scattering studies during reversible addition-fragmentation chain transfer aqueous emulsion polymerization,
J. Am. Chem. Soc., **141**, 13664 (2019).

64. Buchecker T., Schmid P., Grillo I., Prévost S., Drechsler M., Diat O., Pfitzner A., and Bauduin P.,
Self-assembly of short chain poly-N-isopropylacrylamid induced by superchaotropic keggin polyoxometalates: From globules to sheets,
J. Am. Chem. Soc., **141**, 6890 (2019).

65. Burg S.L., Washington A., Coles D.M., Bianco A., McLoughlin D., Mykhaylyk O.O., Villanova J., Dennison A.J.C., Hill C.J., Vukusic P., Doak S., Martin S.J., Hutchings M., Parnell S.R., Vasilev C., Clarke N., Ryan A.J., Furnass W., Croucher M., Dalgliesh R.M., Prévost S., Dattani R., Parker A., Jones R.A.L., Fairclough J.P.A., and Parnell A.J.,
Liquid-liquid phase separation morphologies in ultra-white beetle scales and a synthetic equivalent,
Commun. Chem., **2**, 100 (2019).

66. Caremani M., Brunello E., Linari M., Fusi L., Irving T.C., Gore D., Piazzesi G., Irving M., Lombardi V., and Reconditi M.,
Low temperature traps myosin motors of mammalian muscle in a refractory state that prevents activation,
J. Gen. Physiol., **151**, 1272 (2019).

67. Caremani, M., Pinzauti, F., Powers, J.D., Governali, S., Narayanan, T., Stienen, G.J.M., Reconditi, M., Linari, M., Lombardi, V., and Piazzesi, G.,
Inotropic interventions do not change the resting state of myosin motors during cardiac diastole,
J. Gen. Physiol., **151**, 53 (2019).

68. Carl N., Prévost S., Schweins R., Houston J.E., Morfin I., and Huber K.,
Invertible micelles based on ion-specific interactions of Sr2+ and Ba2+ with double anionic block copolyelectrolytes,
Macromolecules, **52**, 8759 (2019).

69. Carl N., Prévost S., Schweins R., and Huber K.,
Ion-selective binding as a new trigger for micellization of block copolyelectrolytes with two anionic blocks,
Soft Matter, **15**, 8266 (2019).

70. Castelletto V., Edwards-Gayle C.J.C., Greco F., Hamley I.W., Seitsonen J., and Ruokolainen J.,
Self-assembly, tunable hydrogel properties, and selective anti-cancer activity of a carnosine-derived lipidated peptide,
ACS Appl. Mater. Inter., **11**, 33573 (2019).

71. Castro N., Bouet C., Ithurria S., Lequeux N., Constantin D., Levitz P., Pontoni D., and Abécassis B.,
Insights into the formation mechanism of CdSe nanoplatelets using in situ X-ray scattering,
Nano Lett., **19**, 6466 (2019).

72. Chaput F., Lerouge F., Bulin A.L., Amans D., Odziomek M., Faure A.C., Monteil M., Dozov I., Parola S., Bouquet F., Lecouvey M., Davidson P., and Dujardin C.,
Liquid-crystalline suspensions of photosensitive paramagnetic CeF3 nanodiscs,
Langmuir, **35**, 16256 (2019).

73. Charvet A., Vergelati C., Sotta P., and Long D.R.,
Damage mechanisms of plasticized cellulose acetate under tensile deformation studied by ultrasmall-angle X-ray scattering,
Macromolecules, **52**, 6613 (2019).

74. Clair C., Lallam A., Rosenthal M., Sztucki M., Vatankhah-Varnosfaderani M., Keith A.N., Cong Y., Liang H., Dobrynin A.V., Sheiko S.S., and Ivanov D.A.,
Strained bottlebrushes in super-soft physical networks,
ACS Macro Lett., **8**, 530 (2019).

75. Clemente I., Falsini S., Di Cola E., Fadda G.C., Gonnelli C., Spinozzi F., Bacia-Verloop M., Grillo I., and Ristori S.,
Green nanovectors for phytodrug delivery: In-depth structural and morphological characterization,
ACS Sustainable Chem. Eng., **7**, 12838 (2019).

76. Di Cola E., Cantù L., Brocca P., Rondelli V., Fadda G.C., Canelli E., Martelli P., Clementino A., Sonvico F., Bettini R., and Del Favero E.,
Novel O/W nanoemulsions for nasal administration: Structural hints in the selection of performing vehicles with enhanced mucopenetration,
Colloid Surface B, **183**, 110439 (2019).

77. Di Credico B., Tagliaro I., Cobani E., Conzatti L., D'Arienzo M., Giannini L., Mascotto S., Scotti R., Stagnaro P., and Tadiello L.,
A green approach for preparing high-loaded sepiolite/polymer biocomposites,
Nanomaterials, **9**, 46 (2019).

78. Edwards-Gayle C.J.C., Castelletto V., Hamley I.W., Barrett G., Greco F., Hermida-Merino D., Rambo R.P., Seitsonen J., and Ruokolainen J.,
Self-assembly, antimicrobial activity, and membrane interactions of arginine-capped peptide bola-amphiphiles,
ACS Appl. Bio Mater., **2**, 2208 (2019).

79. Fanova A., Janata M., Filippov S.K., Slouf M., Netopilík M., Mariani A., and Stepánek M.,
Evolution of structure in a comb copolymer-surfactant coacervate,
Macromolecules, **52**, 6303 (2019).

80. Fink L., Steiner A., Szekely O., Székely P., and Raviv U.,

Structure and interactions between charged lipid membranes in the presence of multivalent ions,
Langmuir, **35**, 9694 (2019).

81. Geisler R., Pedersen M.C., Hannappel Y., Schweins R., Prévost S., Dattani R., Arleth L., and Hellweg T.,
Aescin-induced conversion of gel-phase lipid membranes into bicelle-like lipid nanoparticles,
Langmuir, **35**, 16244 (2019).

82. Ginsburg A., Ben-Nun T., Asor R., Shemesh A., Fink L., Tekoah R., Levartovsky Y., Khaykelson D., Dharan R., Fellig A., and Raviv U.,
D+ : Software for high-resolution hierarchical modeling of solution X-ray scattering from complex structures,
J. Appl. Cryst., **52**, 219 (2019).

83. Grimaldo M., Lopez H., Beck C., Roosen-Runge F., Moulin M., Devos J.M., Laux V., Härtlein M., Da Vela S., Schweins R., Mariani A., Zhang F., Barrat J.L., Oettel M., Forsyth V.T., Seydel T., and Schreiber F.,
Protein short-time diffusion in a naturally crowded environment,
J. Phys. Chem. Lett., **10**, 1709 (2019).

84. Hatton F.L., Park A.M., Zhang Y.R., Fuchs G.D., Ober C.K., and Armes S.P.,
Aqueous one-pot synthesis of epoxy-functional diblock copolymer worms from a single monomer: New anisotropic scaffolds for potential charge storage applications,
Polym. Chem., **10**, 194 (2019).

85. Hunter S.J., Thompson K.L., Lovett J.R., Hatton F.L., Derry M.J., Lindsay C., Taylor P., and Armes S.P.,
Synthesis, characterization, and pickering emulsifier performance of anisotropic cross-linked block copolymer worms: Effect of aspect ratio on emulsion stability in the presence of surfactant,
Langmuir, **35**, 254 (2019).

86. Jonsson G.K., Ulama J., Persson R.A.X., Oskolkova M.Z., Sztucki M., Narayanan T., and Bergenholtz J.,
Stabilizing colloidal particles against salting-out by shortening surface grafts,
Langmuir, **35**, 11836 (2019).

87. Julius K., Weine J., Gao M., Latarius J., Elbers M., Paulus M., Tolan M., and Winter R.,
Impact of macromolecular crowding and compression on protein-protein interactions and liquid-liquid phase separation phenomena,

Macromolecules, **52**, 1772 (2019).

88. Kayumov R.R., Sanginov E.A., Shmygleva L.V., Radaeva A.P., Karelin A.I., Zyubin A.S., Zyubina T.S., Anokhin D.V., Ivanov D.A., and Dobrovolsky Y.A., *Ammonium form of Nafion plasticized by dimethyl sulfoxide*, J. Electrochem. Soc., **166**, F3216 (2019).

89. Koczwara C., Prehal C., Haas S., Boesecke P., Huesing N., and Paris O., **Towards real-time ion-specific structural sensitivity in nanoporous carbon electrodes using in situ anomalous small-angle X-ray scattering**, ACS Appl. Mater. Inter., **11**, 42214 (2019).

90. Lachowicz J.I., Picci G., Coni P., Lippolis V., Mamusa M., Murgia S., Pichiri G., and Caltagirone C., *Fluorescent squaramide ligands for cellular imaging and their encapsulation in cubosomes*, New J. Chem., **43**, 10336 (2019).

91. Lin X., Schmelter D., Imanian S., and Hintze-Bruening H., *Hierarchically ordered α-zirconium phosphate platelets in aqueous phase with empty liquid*, Sci. Rep., **9**, 16389 (2019).

92. Lokteva I., Koof M., Walther M., Grübel G., and Lehmkühler F., **Coexistence of hcp and bct phases during in situ superlattice assembly from faceted colloidal nanocrystals**, J. Phys. Chem. Lett., **10**, 6331 (2019).

93. Lokteva I., Koof M., Walther M., Grübel G., and Lehmkühler F., **Monitoring nanocrystal self-assembly in real time using in situ small-angle X-ray scattering**, Small, **15**, 1900438 (2019).

94. Lokteva I., Walther M., Koof M., Grübel G., and Lehmkühler F., *In situ small-angle X-ray scattering environment for studying nanocrystal self-assembly upon controlled solvent evaporation*, Rev. Sci. Instrum., **90**, 036103 (2019).

95. Lombardo D., Munaò G., Calandra P., Pasqua L., and Caccamo M.T., **Evidence of pre-micellar aggregates in aqueous solution of amphiphilic PDMS-PEO block copolymer**, Phys. Chem. Chem. Phys., **21**, 11983 (2019).

96. Ludescher L., Dirin D.N., Kovalenko M.V., Sztucki M., Boesecke P., and Lechner R.T.,
Impact of crystal structure and particles shape on the photoluminescence intensity of CdSe/CdS core/shell nanocrystals,
Front. Chem., **6**, 672 (2019).

97. Maiorova L.A., Erokhina S.I., Pisani M., Barucca G., Marcaccio M., Koifman O.I., Salnikov D.S., Gromova O.A., Astolfi P., Ricci V., and Erokhin V.,
Encapsulation of vitamin B12 into nanoengineered capsules and soft matter nanosystems for targeted delivery,
Colloid Surface B, **182**, 110366 (2019).

98. Mariani A., Bonomo M., and Passerini S.,
Statistic-driven proton transfer affecting nanoscopic organization in an ethylammonium nitrate ionic liquid and 1,4-diaminobutane binary mixture: A steamy pizza model,
Symmetry, **11**, 1425 (2019).

99. Martins A.R., Bocahut A., Michon M.L., and Sotta P.,
Effect of intermolecular interactions on the viscoelastic behavior of unentangled polyamide melts,
J. Rheol., **63**, 377 (2019).

100. Matsarskaia O., Da Vela S., Mariani A., Fu Z., Zhang F., and Schreiber F.,
Phase-separation kinetics in protein-salt mixtures with compositionally tuned interactions,
J. Phys. Chem. B, **123**, 1913 (2019).

101. McKibbin S.R., Yngman S., Balmes O., Meuller B.O., Tågerud S., Messing M.E., Portale G., Sztucki M., Deppert K., Samuelson L., Magnusson M.H., Lundgren E., and Mikkelsen A.,
In situ observation of synthesized nanoparticles in ultra-dilute aerosols via X-ray scattering,
Nano Research, **12**, 25 (2019).

102. Merkens S., Vakili M., Sánchez-Iglesias A., Litti L., Gao Y.Y., Gwozdz P.V., Sharpnack L., Blick R.H., Liz-Marzan L.M., Grzelczak M., and Trebbin M.,
Time-resolved analysis of the structural dynamics of assembling gold nanoparticles,
ACS Nano, **13**, 6596 (2019).

103. Mizuta R., Devos J.M., Narayanan T., Oliva M., Gray M., Webster J., Ling W.L., Round A., Munnur D., Mossou E., Farahat A., Boykin D.W., Wilson W.D., Neidle S., Schweins R., Rannou P., Haertlein M., Forsyth V.T., and Mitchell E., *Hierarchical nanotube self-assembly of DNA minor groove-binding ligand DB921 via alkali halide*

triggering,
Macromol. Symp., **386**, 1800243 (2019).

104. Möller J., Reiser M., Hallmann J., Boesenberg U., Zozulya A., Rahmann H., Becker A.L., Westermeier F., Zinn T., Zontone F., Gutt C., and Madsen A.,
Implications of disturbed photon-counting statistics of Eiger detectors for X-ray speckle visibility experiments,
J. Synchrotron Rad., **26**, 1705 (2019).

105. Nikolaeva T., den Adel R., van der Sman R., Martens K.J.A., van As H., Voda A., and van Duynhoven J.,
Manipulation of recrystallization and network formation of oil-dispersed micronized fat crystals,
Langmuir, **35**, 2221 (2019).

106. Paineau E., Monet G., Peyre V., Goldmann C., Rouzière S., and Launois P.,
Colloidal stability of imogolite nanotube dispersions: A phase diagram study,
Langmuir, **35**, 12451 (2019).

107. Patil N., Narayanan T., Michels L., Skjønsfjell E.T.B., Guizar-Sicairos M., Van den Brande N., Claessens R., Van Mele B., and Breiby D.W.,
Probing organic thin films by coherent X-ray imaging and X-ray scattering,
ACS Appl. Polym. Mater., **1**, 1787 (2019).

108. Penttilä P.A., Vierros S., Utriainen K., Carl N., Rautkari L., Sammalkorpi M., and Österberg M.,
Phospholipid-based reverse micelle structures in vegetable oil modified by water content, free fatty acid, and temperature,
Langmuir, **35**, 8373 (2019).

109. Pescina S., Lucca L.G., Govoni P., Padula C., Del Favero E., Cantù L., Santi P., and Nicoli S.,
Ex vivo conjunctival retention and transconjunctival transport of poorly soluble drugs using polymeric micelles,
Pharmaceutics, **11**, 476 (2019).

110. Rawlings A.E., Somner L.A., Fitzpatrick-Milton M., Roebuck T.P., Gwyn C., Liravi P., Seville V., Neal T.J., Mykhaylyk O.O., Baldwin S.A., and Staniland S.S.,
Artificial coiled coil biomineralisation protein for the synthesis of magnetic nanoparticles,
Nature Commun., **10**, 2873 (2019).

111. Rey C., Hengl N., Baup S., Karrouch M., Dufresne A., Djeridi H., Dattani R., and Pignon F.,

Velocity, stress and concentration fields revealed by micro-PIV and SAXS within concentration polarization layers during cross-flow ultrafiltration of colloidal Laponite clay suspensions,
J. Membrane Sci., **578**, 69 (2019).

112. Rey C., Hengl N., Baup S., Karrouch M., Gicquel E., Dufresne A., Djeridi H., Dattani R., Jin Y., and Pignon F.,
Structure, rheological behavior, and in situ local flow fields of cellulose nanocrystal dispersions during cross-flow ultrafiltration,
ACS Sustainable Chem. Eng., **7**, 10679 (2019).

113. Ricarte R.G., Tournilhac F., and Leibler L.,
Phase separation and self-assembly in vitrimers: Hierarchical morphology of molten and semicrystalline polyethylene/dioxaborolane maleimide systems,
Macromolecules, **52**, 432 (2019).

114. Rinaldi F., Del Favero E., Moeller J., Hanieh P.N., Passeri D., Rossi M., Angeloni L., Venditti I., Marianecci C., Carafa M., and Fratoddi I.,
Hydrophilic silver nanoparticles loaded into niosomes: Physical-chemical characterization in view of biological applications,
Nanomaterials, **9**, 1177 (2019).

115. Rinaldi F., Seguella L., Gigli S., Hanieh P.N., Del Favero E., Cantù L., Pesce M., Sarnelli G., Marianecci C., Esposito G., and Carafa M.,
inPentasomes: An innovative nose-to-brain pentamidine delivery blunts MPTP parkinsonism in mice,
J. Controlled Release, **294**, 17 (2019).

116. Rondelli V., Di Cola E., Koutsioubas A., Alongi J., Ferruti P., Ranucci E., and Brocca P.,
Mucin thin layers: A model for mucus-covered tissues,
Int. J. Mol. Sci., **20**, 3712 (2019).

117. Rymaruk M.J.,Hunter S.J.,O'Brien C.T.,Brown S.L.,Williams C.N.and Armes S.P.,
RAFT dispersion polymerization in silicone oil,
Macromolecules, **52**, 2822 (2019).

118. Rymaruk M.J., O'Brien C.T., Brown S.L., Williams C.N., and Armes S.P., *Effect of core cross-linking on the physical properties of poly(dimethylsiloxane)-based diblock copolymer worms prepared in silicone oil*,
Macromolecules, **52**, 6849 (2019).

119. Sandri G., Rossi S., Bonferoni M.C., Miele D., Faccendini A., Del Favero E., Di Cola E., Cornaglia A.I., Boselli C., Luxbacher T., Malavasi L., Cantù L., and Ferrari F.,

Chitosan/glycosaminoglycan scaffolds for skin reparation,
Carbohydrate Polymers, **220**, 219 (2019).

120. Scheck J., Fuhrer L.M., Wu B.H., Drechsler M., and Gebauer D.,
Nucleation of hematite: A nonclassical mechanism,
Chem. Eur. J., **25**, 13002 (2019).

121. Schöttl S., Lopian T., Prévost S., Touraud D., Grillo I., Diat O., Zemb T., and Horinek D.,
Combined molecular dynamics (MD) and small angle scattering (SAS) analysis of organization on a nanometer-scale in ternary solvent solutions containing a hydrotrope,
J. Colloid Interf. Sci., **540**, 623 (2019).

122. Schuldes I., Noll D.M., Schindler T., Zech T., Götz K., Appavou M.S., Boesecke P., Steiniger F., Schulz P.S., and Unruh T.,
Internal structure of nanometer-sized droplets prepared by antisolvent precipitation,
Langmuir, **35**, 13578 (2019).

123. Smith G.N., Cunningham V.J., Canning S.L., Derry M.J., Cooper J.F.K., Washington A.L., and Armes S.P.,
Spin-echo small-angle neutron scattering (SESANS) studies of diblock copolymer nanoparticles,
Soft Matter, **15**, 17 (2019).

124. Smith G.N., Derry M.J., Hallett J.E., Lovett J.R., Mykhaylyk O.O., Neal T.J., Prévost S., and Armes S.P.,
Refractive index matched, nearly hard polymer colloids,
Proc. Royal Soc. A, **475**, 20180763 (2019).

125. Sreij R., Dargel C., Hannappel Y., Jestin J., Prévost S., Dattani R., Wrede O., and Hellweg T.,
Temperature dependent self-organization of DMPC membranes promoted by intermediate amounts of the saponin aescin,
Biochim. Biophys. Acta – Biomembranes, **1861**, 897 (2019).

126. Sreij R., Dargel C., Schweins R., Prévost S., Dattani R., and Hellweg T.,
Aescin-cholesterol complexes in DMPC model membranes: A DSC and temperature-dependent scattering study,
Sci. Rep., **9**, 5542 (2019).

127. Staropoli M., Gerstner D., Sztucki M., Vehres G., Duez B., Westermann S., Lenoble D., and Pyckhout-Hintzen W.,
Hierarchical scattering function for silica-filled rubbers under deformation: Effect of the initial cluster distribution,

Macromolecules, **52**, 9735 (2019).

128. Stoclet G., Arias A., Yeniad B., and de Vos S.,
Relationships between crystalline structure and the thermal behavior of poly(ethylene 2,5-furandicarboxylate): An in situ simultaneous SAXS-WAXS study,
Polym. Eng. Sci., **59**, 1667 (2019).

129. Sztucki M., Léonardon J., Van Vaerenbergh P., Gorini J., Boesecke P., and Narayanan T.,
Development of a crystal collimation system for high-resolution ultra-small-angle X-ray scattering applications,
J. Synchrotron Rad., **26**, 439 (2019).

130. Tarasov A.E., Anokhin D.V., Propad Y.V., Bersenev E.A., Razorenov S.V., Garkushin G.V., and Badamshina E.R.,
Synergetic effect of fullerene and graphene oxide nanoparticles on mechanical characteristics of cross-linked polyurethanes under static and dynamic loading,
J. Composite Mater., **53**, 3797 (2019).

131. Tassler S., Dobner B., Lampp L., Ziolkowski R., Malinowska E., Wölk C., and Brezesinski G.,
DNA Delivery systems based on peptide-mimicking cationic lipids-The effect of the Co-lipid on the structure and DNA binding capacity,
Langmuir, **35**, 4613 (2019).

132. Trinh G.H., Desloir M., Dutertre F., Majesté J.C., Dalmas F., and Baeza G.P.,
Isostructural softening of the filler network in SBR/silica nanocomposites,
Soft Matter, **15**, 3122 (2019).

133. Vakili M., Merkens S., Gao Y., Gwozdz P.V., Vasireddi R., Sharpnack L., Meyer A., Blick R.H., and Trebbin M.,
3D micromachined polyimide mixing devices for in situ X-ray imaging of solution-based block copolymer phase transitions,
Langmuir, **35**, 10435 (2019).

134. Warasitthinon N., Genix A.C., Sztucki M., Oberdisse J., and Robertson C.G.,
The Payne effect: Primarily polymer-related or filler-related phenomenon?
Rubber Chem. Tech., **92**, 599 (2019).

135. Zakine R., Edirimuni D.D., Constantin D., Galatola P., and Fournier J.B.,
Interaction and structuration of membrane-binding and membrane-excluding colloidal particles in lamellar phases,
Soft Matter, **15**, 4351 (2019).

136. Zákutná D., Falke Y., Dresen D., Prévost S., Bender P., Honecker D. and Disch S.,
Morphological and crystallographic orientation of hematite spindles in an applied magnetic field,
Nanoscale, **11**, 7149 (2019).

137. Zorgati H., Larsson M., Ren W., Sim A.Y.L., Gettemans J., Grimes J.M., Li W., and Robinson R.C.,
The role of gelsolin domain 3 in familial amyloidosis (Finnish type),
PNAS, **116**, 13958 (2019).

2018

138. Al-Ayoubi, S.R., Schinkel, P. K. F., Berghaus, M., Herzog, M., and Winter, R.,
Combined effects of osmotic and hydrostatic pressure on multilamellar lipid membranes in the presence of PEG and trehalose,
Soft Matter, **14**, 8792 (2018).

139. Arns L., Schuabb V., Meichsner S., Berghaus M., and Winter R.,
The effect of natural osmolyte mixtures on the temperature-pressure stability of the protein RNase A,
Z. Phys. Chem., **232**, 615 (2018).

140. Azar E., Constantin D., and Warschawski D.E.,
The effect of gramicidin inclusions on the local order of membrane components,
Eur. Phys. J., E **41**, 44 (2018).

141. Barattin M., Mattarei A., Balasso A., Paradisi C., Cantù L., Del Favero E., Viitala T., Mastrotto F., Caliceti P., and Salmaso S.,
pH-controlled liposomes for enhanced cell penetration in tumor environment,
ACS Appl. Mater. Interf., **10**, 17646 (2018).

142. Bernardo, G., Washington, A. L., Zhang, Y., King, S. M., Toolan, D. T., Weir, M. P., Dunbar, A.D.F., Howse, J.R., Dattani, R., Fairclough J.P.A., and Parnell, A. J.,
Does 1, 8-diiodooctane affect the aggregation state of PC71BM in solution?
Open Sci., **5**, 180937 (2018).

143. Boge L., Västberg A., Umerska A., Bysell H., Eriksson J., Edwards K., Millqvist-Fureby A., and Andersson M.,
Freeze-dried and re-hydrated liquid crystalline nanoparticles stabilized with disaccharides for drug-delivery of the plectasin derivative AP114 antimicrobial peptide,
J. Colloid Interf. Sci., **522**, 126 (2018).

144. Bóta A., Wacha A., Varga Z., Szigyártó I., Kristyán S., Lörincz A., Szabó P., Kálmán M., Naszályi-Nagy L., and Mihály J.,

Role of oligo(malic acid) on the formation of unilamellar vesicles,
J. Colloid Interf. Sci., **532**, 782 (2018).

145. Boufi S., Bel Haaj S., Magnin A., Pignon F., Impéror-Clerc M., and Mortha G.,
Ultrasonic assisted production of starch nanoparticles: Structural characterization and mechanism of disintegration,
Ultrasonics Sonochem., **41**, 327 (2018).

146. Braun M.K., Sauter A., Matsarskaia O., Wolf M., Roosen-Runge F., Sztucki M., Roth R., Zhang F., and Schreiber F.,
Reentrant phase behavior in protein solutions induced by multivalent salts: Strong effect of anions Cl– versus NO3–,
J. Phys. Chem., B **122**, 11978 (2018).

147. Bravo-Anaya L.M., Roux D.C.D., Soltero Martinez J.F.A., Carvajal Ramos F., Pignon F., Mannix O., and Rinaudo M.,
Role of electrostatic interactions on supramolecular organization in calf-thymus DNA solutions under flow,
Polymers, **10**, 1204 (2018).

148. Bruetzel L.K., Walker P.U., Gerling T., Dietz H., and Lipfert J.,
Time-resolved small-angle X-ray scattering reveals millisecond transitions of a DNA origami switch,
Nano Lett., **18**, 2672 (2018).

149. Buchecker T., Schmid P., Renaudineau S., Diat O., Proust A., Pfitzner A., and Bauduin P.,
Polyoxometalates in the Hofmeister series,
Chem. Comm., **54**, 1833 (2018).

150. Buluy O., Aryasova N., Tereshchenko O., Kurioz Y., Nazarenko V., Eremin A., Stannarius R., Klein S., Goldmann C., Davidson P., Dozov I., and Reznikov Y.,
Optical and X-ray scattering studies of the electric field-induced orientational order in colloidal suspensions of pigment nanorods,
J. Mol. Liquids, **267**, 286 (2018).

151. Burg S.L., and Parnell A.J.,
Self-assembling structural colour in nature,
J. Phys. Condens. Matter, **30**, 413001 (2018).

152. Cabeza O., Segade L., Domínguez-Pérez M., Rilo E., Ausin D., Martinelli A., Yaghini N., Gollas B., Kriechbaum M., Russina O., Triolo A., López-Lago E., and Varela L.M.,

Mesostructure and physical properties of aqueous mixtures of the ionic liquid 1-ethyl-3-methyl imidazolium octyl sulfate doped with divalent sulfate salts in the liquid and the mesomorphic states,
Phys. Chem. Chem. Phys., **20**, 8724 (2018).

153. Campetella M., Mariani A., Sadun C., Wu B., Castner Jr E.W., and Gontrani L.,
Structure and dynamics of propylammonium nitrate-acetonitrile mixtures: An intricate multi-scale system probed with experimental and theoretical techniques,
J. Chem. Phys., **148**, 134507 (2018).

154. Chevreuil M., Law-Hine D., Chen J., Bressanelli S., Combet S., Constantin D., Degrouard J., Möller J., Zeghal M., and Tresset G.,
Nonequilibrium self-assembly dynamics of icosahedral viral capsids packaging genome or polyelectrolyte,
Nature Commun., **9**, 3071 (2018).

155. d'Angelo, I., Costabile, G., Durantie, E., Brocca, P., Rondelli, V., Russo, A., Russo, G., Miro, A., Quaglia, F., Petri-Fink, A., Rothen-Rutishauser, B., and Ungaro F.,
Hybrid Lipid/Polymer Nanoparticles for Pulmonary Delivery of siRNA: Development and Fate Upon In Vitro Deposition on the Human Epithelial Airway Barrier,
J. Aerosol Med. Pulmonary Drug Delivery, **31**, 170 (2018).

156. Davidson P., Penisson C., Constantin D., and Gabriel J.C.P.,
Isotropic, nematic, and lamellar phases in colloidal suspensions of nanosheets,
PNAS, **115**, 6662 (2018).

157. den Adel, R.,van Malssen, K.,van Duynhoven, J., Mykhaylyk, O. O. and Voda, A.,
Fat crystallite thickness distribution based on SAXD peak shape analysis,
Eur. J. Lipid Sci. Tech., **120**, 1800222 (2018).

158. Dhasaiyan P., Prévost S., Baccile N., and Prasad B.L.V.,
pH- and time-resolved in situ SAXS study of self-assembled twisted ribbons formed by elaidic acid sophorolipids,
Langmuir, **34**, 2121 (2018).

159. Eakins F., Harford J.J., Knupp C., Roessle M., and Squire J.M.,
Different myosin head conformations in bony fish muscles put into rigor at different sarcomere lengths,
Int. J. Mol. Sci., **19**, 2091 (2018).

160. Eliseev, A. A., Eliseev, A. A., Trusov, L. A., Chumakov, A. P., Boesecke, P., Anokhin, E. O., Vasiliev, A.V., Sleptsova, A.E., Gorbachev, E.A., Korolev, V.V., and Kazin, P. E.,
Rotational dynamics of colloidal hexaferrite nanoplates,

Appl. Phys. Lett., **113**, 113106 (2018).

161. Fanova, A., Šindelka, K., Uchman, M., Limpouchová, Z., Filippov, S. K., Pispas, S., Procházka, K., and Štěpánek, M.,
Coassembly of Poly (N-isopropylacrylamide) with Dodecyl and Carboxyl Terminal Groups with Cationic Surfactant: Critical Comparison of Experimental and Simulation Data,
Macromolecules, **51**, 7295 (2018).

162. Gineste S., Di Cola E., Amouroux B., Till U., Marty J.D., Mingotaud A.F., Mingotaud C., Violleau F., Berti D., Parigi G., Luchinat C., Balor S., Sztucki M., and Lonetti B.,
Mechanistic insights into polyion complex associations,
Macromolecules, **51**, 1427 (2018).

163. Gobeaux F., and Wien F.,
Reversible assembly of a drug peptide into amyloid fibrils: A dynamic circular dichroism study,
Langmuir, **34**, 7180 (2018).

164. Grillo, I., Morfin, I., and Prévost, S. F.,
Structural characterization of Pluronic micelles swollen with perfume molecules,
Langmuir, **34**, 13395 (2018).

165. Hallett J.E., Gillespie D.A.J., Richardson R.M., and Bartlett P.,
Charge regulation of nonpolar colloids,
Soft Matter, **14**, 331 (2018).

166. Hansch M., Hamisch B., Schweins R., Prévost S., and Huber K.,
Liquid-liquid phase separation in dilute solutions of poly(styrene sulfonate) with multivalent cations: Phase diagrams, chain morphology, and impact of temperature,
J. Chem. Phys., **148**, 014901 (2018).

167. Jäger A., Jäger E., Giacomelli F.C., Nallet F., Steinhart M., Putaux J.L., Konefal R., Spevácek J., Ulbrich K., and Stepánek P.,
Structural changes on polymeric nanoparticles induced by hydrophobic drug entrapment,
Colloid Surface A, **538**, 238 (2018).

168. Jansson M., Thuresson A., Plivelic T.S., Forsman J., and Skepö M.,
The effect of the relative permittivity on the tactoid formation in nanoplatelet systems. A combined computer simulation, SAXS, and osmotic pressure study,
J. Colloid Interf. Sci., **513**, 575 (2018).

169. Jiang Y., Ojo W.S., Mahler B., Xu X., Abécassis B., and Dubertret B.,
Synthesis of CdSe nanoplatelets without short-chain ligands: Implication for their growth mechanisms,
ACS Omega, **3**, 6199 (2018).

170. Julius K., Weine J., Berghaus M., König N., Gao M., Latarius J., Paulus M., Schroer M.A., Tolan M., and Winter R.,
Water-mediated protein-protein interactions at high pressures are controlled by a deep-sea osmolyte,
Phys. Rev. Lett., **121**, 038101 (2018).

171. Keidel R., Ghavami A., Lugo D.M., Lotze G., Virtanen O., Beumers P., Pedersen J.S., Bardow A., Winkler R.G., and Richtering W.,
Time-resolved structural evolution during the collapse of responsive hydrogels: The microgel-to-particle transition,
Science Adv., **4**, eaao7086 (2018).

172. Krautwurst N., Nicoleau L., Dietzsch M., Lieberwirth I., Labbez C., Fernández-Martínez A., Van Driessche A.E.S., Barton B., Leukel S., and Tremel W.,
*Two-step nucleation process of calcium silicate hydrate, the nanobrick of cem*ent,
Chem. Mater., **30**, 2895 (2018).

173. Krickl S., Touraud D., Bauduin P., Zinn T., and Kunz W.,
Enzyme activity of horseradish peroxidase in surfactant-free microemulsions,
J. Colloid Interf. Sci., **516**, 466 (2018).

174. Landman J., Ouhajji S., Prévost S., Narayanan T., Groenewold J., Philipse A.P., Kegel W.K., and Petukhov A.V.,
Inward growth by nucleation: Multiscale self-assembly of ordered membranes,
Science Adv., **4**, eaat1817 (2018).

175. Lassin A., André L., Devau N., Lach A., Beuvier T., Gibaud A., Gaboreau S., and Azaroual M.,
Dynamics of calcium carbonate formation: Geochemical modeling of a two-step mechanism,
Geochim. Cosmochim. Acta, **240**, 236 (2018).

176. Leguy, J., Diallo, A., Putaux, J. L., Nishiyama, Y., Heux, L., and Jean, B.,
Periodate Oxidation Followed by NaBH4 Reduction Converts Microfibrillated Cellulose into Sterically Stabilized Neutral Cellulose Nanocrystal Suspensions,
Langmuir, **34**, 11066 (2018).

177. Mable C.J.,Fielding L.A.,Derry M.J.,Mykhaylyk O.O.,Chambon P.and Armes S.P.,

Synthesis and pH-responsive dissociation of framboidal ABC triblock copolymer vesicles in aqueous solution,
Chem. Sci., **9**, 1454 (2018).

178. Maes J., Castro N., De Nolf K., Walravens W., Abécassis B., and Hens Z.,
Size and concentration determination of colloidal nanocrystals by small-angle X-ray scattering,
Chem. Mater., **30**, 3952 (2018).

179. Martens K.J.A., van Dalen G., Heussen P.C.M., Voda M.A., Nikolaeva T., and van Duynhoven J.P.M.,
Quantitative structural analysis of fat crystal networks by means of Raman confocal imaging,
J. Am. Oil Chem. Soc., **95**, 259 (2018).

180. Matsarskaia, O., Roosen-Runge, F., Lotze, G., Möller, J., Mariani, A., Zhang, F., and Schreiber, F.,
Tuning phase transitions of aqueous protein solutions by multivalent cations,
Phys. Chem. Chem. Phys., **20**, 27214 (2018).

181. Mizuta R., Devos J.M., Webster J., Ling W.L., Narayanan T., Round A., Munnur D., Mossou E., Farahat A.A., Boykin D.W., Wilson W.D., Neidle S., Schweins R., Rannou P., Haertlein M., Forsyth V.T., and Mitchell E.P.,
Dynamic self-assembly of DNA minor groove-binding ligand DB921 into nanotubes triggered by an alkali halide,
Nanoscale, **10**, 5550 (2018).

182. Montanarella F., Geuchies J.J., Dasgupta T., Prins P.T., van Overbeek C., Dattani R., Baesjou P., Dijkstra M., Petukhov A.V., van Blaaderen A., and Vanmaekelbergh D.,
Crystallization of nanocrystals in spherical confinement probed by in situ X-ray scattering,
Nano Lett., **18**, 3675 (2018).

183. Murmiliuk, A., Matějíček, P., Filippov, S. K., Janata, M., Šlouf, M., Pispas, S., and Štěpánek, M.,
Formation of core/corona nanoparticles with interpolyelectrolyte complex cores in aqueous solution: insight into chain dynamics in the complex from fluorescence quenching,
Soft Matter, **14,** 7578 (2018).

184. Nack A., Seifert J., Passow C., and Wagner J.,
Hindered nematic alignment of hematite spindles in poly(N-isopropylacrylamide) hydrogels: A small-angle X-ray scattering and rheology study,
J. Appl. Cryst., **51**, 87 (2018).

185. Narayanan, T., Sztucki, M., Van Vaerenbergh, P., Léonardon, J., Gorini, J., Claustre, L., Sever, F., Morse, J. and Boesecke, P.,
A multipurpose instrument for time-resolved ultra-small-angle and coherent X-ray scattering,
J. Appl. Cryst., **51**, 1511 (2018).

186. Nébouy M., de Almeida A., Brottet S., and Baeza G.P.,
Process-oriented structure tuning of PBT/PTHF thermoplastic elastomers,
Macromolecules, **51**, 6291 (2018).

187. Nguyen, R., Jouault, N., Zanirati, S., Rawiso, M., Allouche, L., Buhler, E., and Giuseppone, N.,
Autopoietic behavior of dynamic covalent amphiphiles,
Chem. Eur. J., **24**, 17125 (2018).

188. Nielsen, J. E., Bjørnestad, V. A., and Lund, R.,
Resolving the Structural Interactions between Antimicrobial Peptides and Lipid Membranes using Small-angle Scattering Methods: the case of Indolicidin,
Soft Matter, **14**, 8750 (2018).

189. Nikolaeva T., den Adel R., Velichko E., Bouwman W.G., Hermida-Merino D., van As H., Voda A., and van Duynhoven J.,
Networks of micronized fat crystals grown under static conditions,
Food Function, **9**, 2102 (2018).

190. Osborne, A. J., Nan, R., Miller, A., Bhatt, J. S., Gor, J., and Perkins, S. J.,
Two distinct conformations of factor H regulate discrete complement-binding functions in the fluid phase and at cell surfaces,
J. Biol. Chem., **293**, 17166 (2018).

191. Pal, A., Zinn, T., Kamal, M. A., Narayanan, T., and Schurtenberger, P.,
Anomalous Dynamics of Magnetic Anisotropic Colloids Studied by XPCS,
Small, 1802233 (2018).

192. Pescina, S., Garrastazu, G., del Favero, E., Rondelli, V., Cantù, L., Padula, C., Santi, P., and Nicoli, S.,
Microemulsions based on TPGS and isostearic acid for imiquimod formulation and skin delivery,
Eur. J. Pharm. Sci., **125**, 223 (2018).

193. Piazzesi, G., Caremani, M., Linari, M., Reconditi, M., and Lombardi, V.,
Thick Filament Mechano-sensing in Skeletal and Cardiac Muscles: a Common Mechanism able to adapt the Energetic Cost of the Contraction to the Task,

Front. Physiol., **9**, 736 (2018).

194. Pinzauti F., Pertici I., Reconditi M., Narayanan T., Stienen G.J.M., Piazzesi G., Lombardi V., Linari M., and Caremani M.,
The force and stiffness of myosin motors in the isometric twitch of a cardiac trabecula and the effect of the extracellular calcium concentration,
J. Physiol., **596**, 2581 (2018).

195. Riabtseva A., Kaberov L.I., Noirez L., Ryukhtin V., Nardin C., Verbraeken B., Hoogenboom R., Stepánek P., and Filippov S.K.,
Structural characterization of nanoparticles formed by fluorinated poly(2-oxazoline)-based polyphiles,
Eur. Polym. J., **99**, 518 (2018).

196. Rinaldi F., Hanieh P.N., Del Favero E., Rondelli V., Brocca P., Pereira M.C., Andreev O.A., Reshetnyak Y.K., Marianecci C., and Carafa M.,
Decoration of nanovesicles with pH (low) insertion peptide (pHLIP) for targeted delivery,
Nanoscale Res. Lett., **13**, 391 (2018).

197. Ristori S., Grillo I., Lusa S., Thamm J., Valentino G., Campani V., Caraglia M., Steiniger F., Luciani P., and De Rosa G.,
Structural characterization of self-assembling hybrid nanoparticles for bisphosphonate delivery in tumors,
Mol. Pharm., **15**, 1258 (2018).

198. Rosenfeldt, S., Förster, S., Friedrich, T., Rehberg, I., and Weber, B.,
Self-assembly of magnetic iron oxide nanoparticles into cuboidal superstructures,
In Novel Magnetic Nanostructures, Eds: Domracheva N., Caporali M. and Rentschler E., Elsevier, pp. 165-189 (2018).

199. Royes J., Nogales A., Ezquerra T.A., Oriol L., Tejedor R.M., and Piñol M.,
Effect of the polymer architecture on the photoinduction of stable chiral organizations,
Polymer, **143**, 58 (2018).

200. Semeraro E.F., Dattani R., and Narayanan T.,
Microstructure and dynamics of Janus particles in a phase separating medium,
J. Chem. Phys., **148**, 014904 (2018).

201. Semeraro E.F., Devos J.M., and Narayanan T.,
Effective interactions and dynamics of small passive particles in an active bacterial medium,
J. Chem. Phys., **148**, 204905 (2018).

202. Semeraro E.F., Möller J., and Narayanan T.,
Multiple-scattering effects in SAXS and XPCS measurements in the ultra-small-angle region,
J. Appl. Cryst., **51**, 706 (2018).

203. Shemesh, A., Ginsburg, A., Levi-Kalisman, Y., Ringel, I., and Raviv, U.,
Structure, Assembly and Disassembly of Tubulin Single Rings,
Biochemistry, **57**, 6153 (2018).

204. Sokolowski M., Bartsch C., Spiering V.J., Prévost S., Appavou M.S., Schweins R., and Gradzielski M.,
Preparation of polymer brush grafted anionic or cationic silica nanoparticles: Systematic variation of the polymer shell,
Macromolecules, **51**, 6936 (2018).

205. Sreij, R., Prévost, S.,Dargel, C., Dattani, R., Hertle, Y., Wrede, O.,and Hellweg, T.,
Interaction of the Saponin Aescin with Ibuprofen in DMPC Model Membranes,
Mol. Pharm., **15**, 4446 (2018).

206. Takahashi R., Narayanan T., Yusa S.I., and Sato T.,
Kinetics of morphological transition between cylindrical and spherical micelles in a mixture of anionic–neutral and cationic–neutral block copolymers studied by time-resolved SAXS and USAXS,
Macromolecules, **51**, 3654 (2018).

207. Tassler S., Pawlowska D., Janich C., Giselbrecht J., Drescher S., Langner A., Wölk C., and Brezesinski G.,
Lysine-based amino-functionalized lipids for gene transfection: 3D phase behaviour and transfection performance,
Phys. Chem. Chem. Phys., **20**, 17393 (2018).

208. van der Burgt J.S., Geuchies J.J., van der Meer B., Vanrompay H., Zanaga D., Zhang Y., Albrecht W., Petukhov A.V., Filion L., Bals S., Swart I., and Vanmaekelbergh D.,
Cuboidal supraparticles self-assembled from cubic CsPbBr3 perovskite nanocrystals,
J. Phys. Chem. C, **122**, 15706 (2018).

209. Vatankhah-Varnosfaderani M., Keith A.N., Cong Y., Liang H., Rosenthal M., Sztucki M., Clair C., Magonov S., Ivanov D.A., Dobrynin A.V., and Sheiko S.S.,
Chameleon-like elastomers with molecularly encoded strain-adaptive stiffening and coloration,
Science, **359**, 1509 (2018).

210. Warren, N. J., Derry, M. J., Mykhaylyk, O. O., Lovett, J. R., Ratcliffe, L. P., Ladmiral, V., Blanazs, A., Fielding, L.A., and Armes, S. P.,
Critical Dependence of Molecular Weight on Thermoresponsive Behavior of Diblock Copolymer Worm Gels in Aqueous Solution,
Macromolecules, **51**, 8357 (2018).

211. Zaborova O.V., Filippov S.K., Chytil P., Kovacik L., Ulbrich K., Yaroslavov A.A., and Etrych T.,
A novel approach to increase the stability of liposomal containers via in prep coating by poly[N-(2-hydroxypropyl)methacrylamide] with covalently attached cholesterol groups,
Macromol. Chem. Phys., **219**, 1700508 (2018).

212. Zabrodskaya Y.A., Lebedev D.V., Egorova M.A., Shaldzhyan A.A., Shvetsov A.V., Kuklin A.I., Vinogradova D.S., Klopov N.V., Matusevich O.V., Cheremnykh T.A., Dattani R., and Egorov V.V.,
The amyloidogenicity of the influenza virus PB1-derived peptide sheds light on its antiviral activity,
Biophys. Chem., **234**, 16 (2018).

213. Zhang T., Hartl C., Frank K., Heuer-Jungemann A., Fischer S., Nickels P.C., Nickel B., and Liedl T.,
3D DNA origami crystals,
Adv. Mater., **30**, 1800273 (2018).

214. Zhang Y., Berghaus M., Klein S., Jenkins K., Zhang S., McCallum S.A., Morgan J.E., Winter R., Barrick D., and Royer C.A.,
High-pressure NMR and SAXS reveals how capping modulates folding cooperativity of the pp32 leucine-rich repeat protein,
J. Mol. Biol., **430**, 1336 (2018).

215. Zinn, T., Homs, A., Sharpnack, L., Tinti, G., Fröjdh, E., Douissard, P. A., Kocsis, M., Möller, J., Chushkin, Y., and Narayanan, T.,
Ultra-small-angle X-ray photon correlation spectroscopy using the Eiger detector,
J. Synchrotron Rad. **25**, 1753, (2018).

2017

216. Asor R., Ben-nun-Shaul O., Oppenheim A., and Raviv U.,
Crystallization, reentrant melting, and resolubilization of virus nanoparticles,
ACS Nano, **11**, 9814 (2017).

217. Baccile N., Le Griel P., Prévost S., Everaert B., Van Bogaert I.N.A., Roelants S., and Soetaert W.,

Glucosomes: Glycosylated vesicle-in-vesicle aggregates in water from pH-responsive microbial glycolipid,
Chem. Open, **6**, 526 (2017).

218. Bartolini A.,Tempesti P., Resta C., Berti D., Smets J., Aouad Y.G.,and Baglioni P.,
Poly(ethylene glycol)-graft-poly(vinyl acetate) single-chain nanoparticles for the encapsulation of small molecules,
Phys. Chem. Chem. Phys., **19**, 4553 (2017).

219. Bershitsky S.Y., Koubassova N.A., Ferenczi M.A., Kopylova G.V., Narayanan T., and Tsaturyan A.K.,
The closed state of the thin filament is not occupied in fully activated skeletal muscle,
Biophys. J., **112**, 1455 (2017).

220. Bianco A., Burg S.L., Parnell A.J., Fernyhough C.M., Washington A.L., Hill C.J., Smith P.J., Whittaker D.M., Mykhaylyk O.O., and Fairclough J.P.A.,
Control of the porous structure of polystyrene particles obtained by nonsolvent induced phase separation,
Langmuir, **33**, 13303 (2017).

221. Braun M.K., Grimaldo M., Roosen-Runge F., Hoffmann I., Czakkel O., Sztucki M., Zhang F., Schreiber F., and Seydel T.,
Crowding-controlled cluster size in concentrated aqueous protein solutions: Structure, self- and collective diffusion,
J. Phys. Chem. Lett., **8**, 2590 (2017).

222. Braun M.K., Wolf M., Matsarskaia O., Da Vela S., Roosen-Runge F., Sztucki M., Roth R., Zhang F., and Schreiber F.,
Strong isotope effects on effective interactions and phase behavior in protein solutions in the presence of multivalent ions,
J. Phys. Chem. B, **121**, 1731 (2017).

223. Cantù L., Colombo L., Stoilova T., Demé B., Inouye H., Booth R., Rondelli V., Di Fede G., Tagliavini F., Del Favero E., Kirschner D.A., and Salmona M.,
The A2V mutation as a new tool for hindering Aβ aggregation: A neutron and x-ray diffraction study,
Sci. Rep., **7**, 5510 (2017).

224. Carl N., Prévost S., Fitzgerald J.P.S., and Karg M.,
Salt-induced cluster formation of gold nanoparticles followed by stopped-flow SAXS, DLS and extinction spectroscopy,
Phys. Chem. Chem. Phys., **19**, 16348 (2017).

225. Cera L., Chiappisi L., Böttcher C., Schulz A., Schöder S., Gradzielski M., and Schalley C.A.,
PolyWhips: Directional particle transport by gradient-directed growth and stiffening of supramolecular assemblies,
Adv. Mater., **29**, 1604430 (2017).

226. Cockram A.A., Neal T.J., Derry M.J., Mykhaylyk O.O., Williams N.S.J., Murray M.W., Emmett S.N., and Armes S.P.,
Effect of monomer solubility on the evolution of copolymer morphology during polymerization-induced self-assembly in aqueous solution,
Macromolecules, **50**, 796 (2017).

227. Colombo L., Gamba A., Cantù L., Salmona M., Tagliavini F., Rondelli V., Del Favero E., and Brocca P.,
Pathogenic Aβ A2V versus protective Aβ A2T mutation: Early stage aggregation and membrane interaction,
Biophys. Chem., **229**, 11 (2017).

228. Da Vela S., Exner C., Santiago Schäufele R., Möller J., Fu Z., Zhang F., and Schreiber F.,
Arrested and temporarily arrested states in a protein–polymer mixture studied by USAXS and VSANS,
Soft Matter, **13**, 8756 (2017).

229. Da Vela S., Roosen-Runge F., Skoda M.W.A., Jacobs R.M.J., Seydel T., Frielinghaus H., Sztucki M., Schweins R., Zhang F., and Schreiber F.,
Effective interactions and colloidal stability of bovine γ-globulin in solution,
J. Phys. Chem. B, **121**, 5759 (2017).

230. Dähling C., Lotze G., Mori H., Pergushov D.V., and Plamper F.A.,
Thermoresponsive segments retard the formation of equilibrium micellar interpolyelectrolyte complexes by detouring to various intermediate structures,
J. Phys. Chem. B, **121**, 6739 (2017).

231. Dattani R., Semeraro E.F., and Narayanan T.,
Phoretic motion of colloids in a phase separating medium,
Soft Matter, **13**, 2817 (2017).

232. de Jeu W.H., Markkula T., Albrecht K., Ivanov D.A., Möller M., and Mourran A.,
Complexing P2VP and P2VP-b-PEO with wedge-shaped amphiphiles,
Macromolecules, **50**, 4754 (2017).

233. de Melo Marques F.A., Angelini R., Ruocco G., and Ruzicka B.,
Isotopic effect on the gel and glass formation of a charged colloidal clay: Laponite,

J. Phys. Chem. B, **121**, 4576 (2017).

234. De Neve L., Vermeir L., Sabatino P., Saveyn P., Denon Q., Martins J., and Van der Meeren P.,
Quantification of counterion binding to and its effects on aqueous dispersions of dialkyl cationic surfactants,
Colloid Surface A, **532**, 458 (2017).

235. Deng R., Derry M.J., Mable C.J., Ning Y., and Armes S.P.,
Using Dynamic Covalent Chemistry to Drive Morphological Transitions: Controlled Release of Encapsulated Nanoparticles from Block Copolymer Vesicles,
J. Am. Chem. Soc., **139**, 7616 (2017).

236. Derry M.J., Mykhaylyk O.O., and Armes S.P.,
A vesicle-to-worm transition provides a new high-temperature oil thickening mechanism,
Angew. Chem. Int., **56**, 1746 (2017).

237. Dhasaiyan P., Le Griel P., Roelants S., Redant E., Van Bogaert I.N.A., Prévost S., Prasad B.L.V., and Baccile N.,
Micelles versus ribbons: How congeners drive the self-assembly of acidic sophorolipid biosurfactants,
Chem. Phys. Chem., **18**, 643 (2017).

238. Falsini S., Di Cola E., In M., Giordani M., Borocci S., and Ristori S.,
Complexation of short ds RNA/DNA oligonucleotides with Gemini micelles: A time resolved SAXS and computational study,
Phys. Chem. Chem. Phys., **19**, 3046 (2017).

239. Folkertsma L., Zhang K., Czakkel O., de Boer H.L., Hempenius M.A., van den Berg A., Odijk M., and Vancso G.J.,
Synchrotron SAXS and impedance spectroscopy unveil nanostructure variations in redox-responsive porous membranes from poly(ferrocenylsilane) poly(ionic liquid)s
Macromolecules, **50**, 296 (2017).

240. Fries M.R., Stopper D., Braun M.K., Hinderhofer A., Zhang F., Jacobs R.M.J., Skoda M.W.A., Hansen-Goos H., Roth R., and Schreiber F.,
Multivalent-ion-activated protein adsorption reflecting bulk reentrant behaviour,
Phys. Rev. Lett., **119**, 228001 (2017).

241. Gao M., Harish B., Berghaus M., Seymen R., Arns L., McCallum S.A., Royer C.A., and Winter R.,
Temperature and pressure limits of guanosine monophosphate self-assemblies,
Sci. Rep., **7**, 9864 (2017).

242. Ginsburg A., Shemesh A., Millgram A., Dharan R., Levi-Kalisman Y., Ringel I., and Raviv U.,
Structure of dynamic, taxol-stabilized, and GMPPCP-stabilized microtubule,
J. Phys. Chem. B, **121**, 8427 (2017).

243. Gobeaux F., Porcher F., and Dattani R.,
Reversible morphological control of cholecystokinin tetrapeptide amyloid assemblies as a function of pH,
J. Phys. Chem. B, **121**, 3059 (2017).

244. Goehring L., Li J., and Kiatkirakajorn P.C.,
Drying paint: From micro-scale dynamics to mechanical instabilities,
Phil. Tran. Royal Soc. A, **375**, 20160161 (2017).

245. Guénet H., Davranche M., Vantelon D., Gigault J., Prévost S., Taché O., Jaksch S., Pédrot M., Dorcet V., Boutier A., and Jestin J.,
Characterization of iron–organic matter nano-aggregate networks through a combination of SAXS/SANS and XAS analyses: Impact on As binding,
Environ. Sci. Nano, **4**, 938 (2017).

246. Hamley I.W., Burholt S., Hutchinson J., Castelletto V., Da Silva E.R., Alves W., Gutfreund P., Porcar L., Dattani R., Hermida-Merino D., Newby G., Reza M., Ruokolainen J., and Stasiak J.,
Shear alignment of bola-amphiphilic arginine-coated peptide nanotubes,
Biomacromolecules, **18**, 141 (2017).

247. Jin Y., Hengl N., Baup S., Maitrejean G., and Pignon F.,
Modeling and analysis of concentration profiles obtained by in-situ SAXS during cross-flow ultrafiltration of colloids,
J. Membr. Sci., **528**, 34 (2017).

248. Jonsson G.K., Ulama J., Johansson M., Oskolkova M.Z., and Bergenholtz J.,
Semi-batch synthesis of colloidal spheres with fluorinated cores and varying grafts of poly(ethylene glycol),
Colloid Polym. Sci., **295**, 1983 (2017).

249. Katava M., Maccarini M., Villain G., Paciaroni A., Sztucki M., Ivanova O., Madern D., and Sterpone F.,
Thermal activation of 'allosteric-like' large-scale motions in a eukaryotic Lactate Dehydrogenase,
Sci. Rep., **7**, 41092 (2017).

250. König N., Paulus M., Julius K., Schulze J., Voetz M., and Tolan M.,

Antibodies under pressure: A small-angle X-ray scattering study of immunoglobulin G under high hydrostatic pressure,
Biophys. Chem., **231**, 45 (2017).

251. Koubassova N.A., Bershitsky S.Y., Ferenczi M.A., Narayanan T., and Tsaturyan A.K.**,**
Tropomyosin movement is described by a quantitative high-resolution model of X-ray diffraction of contracting muscle,
Eur. Biophys. J., **46**, 335 (2017).

252. Levin A., Jeworrek C., Winter R., Weise K., and Czeslik C.,
Lipid phase control and secondary structure of viral fusion peptides anchored in monoolein membranes,
J. Phys. Chem. B, **121**, 8492 (2017).

253. Lim S.H., Lee T., Oh Y., Narayanan T., Sung B.J., and Choi S.M.,
Hierarchically self-assembled hexagonal honeycomb and kagome superlattices of binary 1D colloids,
Nature Commun., **8**, 360 (2017).

254. Louzon D., Ginsburg A., Schwenger W., Dvir T., Dogic Z., and Raviv U.,
Structure and intermolecular interactions between L-type straight flagellar filaments,
Biophys. J., **112**, 2184 (2017).

255. Mable C.J., Derry M.J., Thompson K.L., Fielding L.A., Mykhaylyk O.O., and Armes S.P.,
Time-resolved SAXS studies of the kinetics of thermally triggered release of encapsulated silica nanoparticles from block copolymer vesicles,
Macromolecules, **50**, 4465 (2017).

256. Mariani A., Caminiti R., Ramondo F., Salvitti G., Mocci F., and Gontrani L.,
Inhomogeneity in ethylammonium nitrate–acetonitrile binary mixtures: The highest "low q excess" reported to date,
J. Phys. Chem. Lett., **8**, 3512 (2017).

257. Möller J., and Narayanan T.,
Velocity fluctuations in sedimenting brownian particles,
Phys. Rev. Lett., **118**, 198001 (2017).

258. Montes-Campos H., Otero-Mato J.M., Méndez-Morales T., López-Lago E., Russina O., Cabeza O., Gallego L.J., and Varela L.M.,
Nanostructured solvation in mixtures of protic ionic liquids and long-chained alcohols,
J. Chem. Phys., **146**, 124503 (2017).

259. Narayanan T., Wacklin H., Konovalov O. and Lund R.,
Recent applications of synchrotron radiation and neutrons in the study of soft matter,
Cryst. Rev., **37**, 160 (2017).

260. Ouhajji S., Landman J., Prévost S., Jiang L., Philipse A.P., and Petukhov A.V.,
In situ observation of self-assembly of sugars and surfactants from nanometres to microns,
Soft Matter, **13**, 2421 (2017).

261. Reconditi M., Caremani M., Pinzauti F., Powers J., Narayanan T., Stienen G., Linari M., Lombardi V., and Piazzesi G.,
Myosin filament activation in the heart is tuned to the mechanical task,
PNAS, **114**, 3240 (2017).

262. Rinaldi F., Del Favero E., Rondelli V., Pieretti S., Bogni A., Ponti J., Rossi F., Di Marzio L., Paolino D., Marianecci C., and Carafa M.,
pH-sensitive niosomes: Effects on cytotoxicity and on inflammation and pain in murine models,
J. Enzyme Inhib. Med. Chem., **32**, 538 (2017).

263. Rudov A.A., Gelissen A.P.H., Lotze G., Schmid A., Eckert T., Pich A., Richtering W., and Potemkin I.I.,
Intramicrogel complexation of oppositely charged compartments as a route to quasi-hollow structures,
Macromolecules, **50**, 4435 (2017).

264. Russina O., Lo Celso F., Plechkova N.V., and Triolo A.,
Emerging evidences of mesoscopic-scale complexity in neat ionic liquids and their mixtures,
J. Phys. Chem. Lett., **8**, 1197 (2017).

265. Russina O., Lo Celso F., Plechkova N., Jafta C.J., Appetecchi G.B., and Triolo A.,
Mesoscopic organization in ionic liquids,
Topics Curr. Chem., **375**, 58 (2017).

266. Sandri G., Motta S., Bonferoni M.C., Brocca P., Rossi S., Ferrari F., Rondelli V., Cantù L., Caramella C., and Del Favero E.,
Chitosan-coupled solid lipid nanoparticles: Tuning nanostructure and mucoadhesion,
Eur. J. Pharm. Biopharm., **110**, 13 (2017).

267. Santos S.P., Cuypers M.G., Round A., Finet S., Narayanan T., Mitchell E.P., and Romão C.V.,
SAXS structural studies of Dps from Deinococcus radiodurans, highlights the conformation of the mobile N-terminal extensions,

J. Mol. Biol., **429**, 667 (2017).

268. Schiener A., Schmidt E., Bergmann C., Seifert S., Zahn D., Krach A., Weihrich R., and Magerl A.,
The formation of CdS quantum dots and Au nanoparticles,
Z. Krist., **232**, 39 (2017).

269. Semeraro E.F., Devos J.M., Porcar L., Forsyth V.T., and Narayanan T.,
In vivo analysis of the Escherichia coli ultrastructure by small-angle scattering,
IUCrJ, **4**, 751 (2017).

270. Steinschulte A.A., Gelissen A.P.H., Jung A., Brugnoni M., Caumanns T., Lotze G., Mayer J., Pergushov D.V., and Plamper F.A.,
Facile screening of various micellar morphologies by blending miktoarm stars and diblock copolymers,
ACS Macro Lett., **6**, 711 (2017).

271. Takahashi R., Matsumoto S., Fujii S., Narayanan T., and Sakurai K.,
Monitoring the discontinuous dodecamer-icosamer transition of a calix[4]arene-derived surfactant by time-resolved small-angle X-ray scattering,
Angew. Chemie Int., **56**, 6734 (2017).

272. Takahashi R., Narayanan T., and Sato T.,
Growth kinetics of polyelectrolyte complexes formed from oppositely-charged homopolymers studied by time-resolved ultra-small-angle X-ray scattering,
J. Phys. Chem. Lett., **8**, 737 (2017).

273. Telò I., Del Favero E., Cantù L., Frattini N., Pescina S., Padula C., Santi P., Sonvico F., and Nicoli S.,
Gel-like TPGS-based microemulsions for imiquimod dermal delivery: Role of mesostructure on the uptake and distribution into the skin,
Mol. Pharm., **14**, 3281 (2017).

274. Thuresson A., Jansson M., Plivelic T.S., and Skepö M.,
Temperature response of charged colloidal particles by mixing counterions utilizing Ca2+/Na+ montmorillonite as model system,
J. Phys. Chem. C, **121**, 7951 (2017).

275. Thuresson A., Segad M., Plivelic T.S., and Skepö M.,
Flocculated laponite-PEG/PEO dispersions with multivalent salt: A SAXS, cryo-TEM, and computer simulation study,
J. Phys. Chem. C, **121**, 7387 (2017).

276. Wagner T., Nedilko A., Linn M., Chigrin D.N., von Plessen G., and Böker A.,

Controlled gold nanorod reorientation and hexagonal order in micromolded gold nanorod@pNIPAM microgel chain arrays,
Small, **13**, 1603054 (2017).

277. Wang W., Li L., Henzler K., Lu Y., Wang J., Han H., Tian Y., Wang Y., Zhou Z., Lotze G., Narayanan T., Ballauff M., and Guo X.,
Protein immobilization onto cationic spherical polyelectrolyte brushes studied by small angle X-ray scattering,
Biomacromolecules, **18**, 1574 (2017).

278. Wieland D.C.F., Zander T., Garamus V.M., Krywka C., Dèdinaitè A., Claesson P., and Willumeit-Römer R.,
Complex solutions under shear and pressure: A rheometer setup for X-ray scattering experiments,
J. Synchrotron Rad., **24**, 646 (2017).

279. Zhang F.,
Nonclassical nucleation pathways in protein crystallization,
J. Phys. Condens. Matter, **29**, 443002 (2017).

2016

280. Baccile N., Selmane M., Le Griel P., Prévost S., Pérez J., Stevens C.V., Delbeke E., Zibek S., Guenther M., Soetaert W., Van Bogaert I.N.A., and Roelants S.,
pH-driven self-assembly of acidic microbial glycolipids,
Langmuir, **32**, 6343 (2016).

281. Baccile N., Cuvier A.S., Prévost S., Stevens C.V., Delbeke E., Berton J., Soetaert W., Van Bogaert I.N.A., and Roelants S.,
Self-assembly mechanism of pH-responsive glycolipids: Micelles, fibers, vesicles, and bilayers,
Langmuir, **32**, 10881 (2016).

282. Baeza G.P., Genix A.C., Paupy-Peyronnet N., Degrandcourt C., Couty M., and Oberdisse J.,
Revealing nanocomposite filler structures by swelling and small-angle X-ray scattering,
Faraday Discus., **186**, 295 (2016).

283. Baeza G.P., Sharma A., Louhichi A., Imperiali L., Appel W.P.J., Fitié C.F.C., Lettinga M.P., van Ruymbeke E., and Vlassopoulos D.,
Multiscale organization of thermoplastic elastomers with varying content of hard segments,
Polymer, **107**, 89 (2016).

284. Benavent V., Frizon F., and Poulesquen A.,
Effect of composition and aging on the porous structure of metakaolin-based geopolymers,
J. Appl. Cryst., **49**, 2116 (2016).

285. Ben-Nun T., Asor R., Ginsburg A., and Raviv U.,
Solution X-ray scattering form-factors with arbitrary electron density profiles and polydispersity distributions,
Isr. J. Chem., **56**, 622 (2016).

286. Berghaus M. , Paulus M. , Salmen P. , Al-Ayoubi S. , Tolan M. , and Winter R.,
Near-surface and bulk behavior of bicontinuous microemulsions under high-pressure conditions,
J. Phys. Chem. B., **120**, 7148 (2016).

287. Bouty A., Petitjean L., Chatard J., Matmour R., Degrandcourt C., Schweins R., Meneau F., Kwasniewski P., Boué F., Couty M., and Jestin J.,
Interplay between polymer chain conformation and nanoparticle assembly in model industrial silica/rubber nanocomposites,
Faraday Discuss., **186**, 325 (2016).

288. Cabane B. , Li J. , Artzner F. , Botet R. , Labbez C. , Bareigts G. , Sztucki M. , and Goehring L.,
Hiding in plain view: Colloidal self-assembly from polydisperse populations,
Phys. Rev. Lett., **116**, 208001 (2016).

289. Campetella M., Martino D.C., Scarpellini E., and Gontrani L.,
Low-Q peak in X-ray patterns of choline-phenylalanine and -homophenylalanine: A combined effect of chain and stacking,
Chem. Phys. Lett., **660**, 99 (2016).

290. Chundawat S.P.S., Paavola C.D., Raman B., Nouailler M., Chan S.L., Mielenz J.R., Receveur-Bréchot V., Trent J.D., and Dale B.E.,
Saccharification of thermochemically pretreated cellulosic biomass using native and engineered cellulosomal enzyme systems,
Reaction Chem. Eng., **1**, 616 (2016).

291. Clementino A., Batger M., Garrastazu G., Pozzoli M., Del Favero E., Rondelli V., Gutfilen B., Barboza T., Sukkar M.B., Souza S.A.L., Cantù L., and Sonvico F.,
The nasal delivery of nanoencapsulated statins - an approach for brain delivery,
Int. J. Nanomed., **11**, 6575 (2016).

292. Dähling C., Lotze G., Drechsler M., Mori H., Pergushov D.V., and Plamper F.A.,

Temperature-induced structure switch in thermo-responsive micellar interpolyelectrolyte complexes: Toward core–shell–corona and worm-like morphologies,
Soft Matter, **12**, 5127 (2016).

293. Da Vela S., Braun M.K., Dörr A., Greco A., Möller J., Fu Z., Zhang F., and Schreiber F.,
Kinetics of liquid-liquid phase separation in protein solutions exhibiting LCST phase behavior studied by time-resolved USAXS and VSANS,
Soft Matter, **12**, 9334 (2016).

294. Escalé P., Save M., Billon L., Ruokolainen J., and Rubatat L.,
When block copolymer self-assembly in hierarchically ordered honeycomb films depicts the breath figure process,
Soft Matter, **12**, 790 (2016).

295. Furse S., Brooks N.J., Woscholski R., Gaffney P.R.J., and Templer R.H.,
Pressure-dependent inverse bicontinuous cubic phase formation in a phosphatidylinositol 4-phosphate/phosphatidylcholine system,
Chem. Data Collections, **3-4**, 15 (2016).

296. Ginsburg A., Ben-Nun T., Asor R., Shemesh A., Ringel I., and Raviv U.,
Reciprocal grids: A hierarchical algorithm for computing Solution X-ray scattering curves from supramolecular complexes at high resolution,
J. Chem. Inf. Model., **56**, 1518 (2016).

297. Janich C., Tassler S., Meister A., Hause G., Schäfer J., Bakowsky U., and Brezesinski G., Wölk C.,
Structures of malonic acid diamide/phospholipid composites and their lipoplexes,
Soft Matter, **12**, 5854 (2016)

298. Jensen G.V., Lund R., Narayanan T., and Pedersen J.S.,
Transformation from globular to cylindrical mixed micelles through molecular exchange that induces micelle fusion,
J. Phys. Chem. Lett., **7**, 2039 (2016).

299. Jouault N., and Jestin J.,
Intra- and interchain correlations in polymer nanocomposites: A small-angle neutron scattering extrapolation method,
ACS Macro Lett., **5**, 1095 (2016).

300. Karpushkin E. , Gvozdik N. , Klimenko M. , Filippov S.K. , Angelov B. , Bessonov I., and Sergeyev V.,

Structure and flow behavior of dilute dispersions of carbon nanotubes in polyacrylonitrile–dimethylsulfoxide solution,
Colloid Polym. Sci., **294**, 1187 (2016).

301. Kirkham S. , Castelletto V. , Hamley I.W. , Reza M. , Ruokolainen J. , Hermida-Merino D., Bilalis P., and Iatrou H.,
Self-assembly of telechelic tyrosine end-capped PEO and poly(alanine) polymers in aqueous solution,
Biomacromolecules, **17**, 1186 (2016).

302. Lopian T., Schöttl S., Prévost S., Pellet-Rostaing S., Horinek D., Kunz W., and Zemb T.,
Morphologies observed in ultraflexible microemulsions with and without the presence of a strong acid,
ACS Central Sci., **2**, 467 (2016).

303. Lund R., Brun G., Chevallier E., Narayanan T., and Tribet C.,
Kinetics of photocontrollable micelles: Light-induced self-assembly and disassembly of azobenzene-based surfactants revealed by TR-SAXS,
Langmuir, **32**, 2539 (2016).

304. Marianecci C., Di Marzio L., Del Favero E., Cantù L., Brocca P., Rondelli V., Rinaldi F., Dini L., Serra A., Decuzzi P., Celia C., Paolino D., Fresta M.,and Carafa M.,
Niosomes as drug nanovectors: Multiscale pH-dependent structural response,
Langmuir, **32**, 1241 (2016).

305. Mariani A., Dattani R., Caminiti R., and Gontrani L.,
Nanoscale density fluctuations in ionic liquid binary mixtures with nonamphiphilic compounds: First experimental evidence,
J. Phys. Chem. B, **120**, 10540 (2016).

306. Mo J., Prévost S.F., Blowes L.M., Egertová M., Terrill N.J., Wang W., Elphick M.R., and Gupta H.S.,
Interfibrillar stiffening of echinoderm mutable collagenous tissue demonstrated at the nanoscale,
PNAS, **113**, E6362 (2016).

307. Mo¨ller J., Chushkin Y., Prevost S. and Narayanan T.,
Multi-speckle X-ray photon correlation spectroscopy in the ultra-small-angle X-ray scattering range,
J. Synchrotron Rad., **23**, 929 (2016).

308. Möller J., Léonardon J., Gorini J., Dattani R., and Narayanan T.,
A sub-ms pressure jump setup for time-resolved X-ray scattering,

Rev. Sci. Instrum., **87**, 125116 (2016).

309. Motta S., Rondelli V., Cantù L., Del Favero E., Aureli M., Pozzi D., Caracciolo G., and Brocca P.,
What the cell surface does not see: The gene vector under the protein corona,
Colloid Surface B, **141**, 170 (2016).

310. Nagalakshmaiah M., Pignon F., El Kissi N., and Dufresne A.,
Surface adsorption of triblock copolymer (PEO–PPO–PEO) on cellulose nanocrystals and their melt extrusion with polyethylene,
RSC Adv., **6**, 66224 (2016).

311. Narayanan T., Weerakkody D., Karabadzhak A.G., Anderson M., Andreev O.A., and Reshetnyak Y.K.,
pHLIP® Peptide Interaction with Phospholipid Membrane Monitored by SAXS,
J. Phys. Chem. B, **120**, 11484 (2016).

312. Parnell S.R. , Washington A.L. , Parnell A.J. , Walsh A. , Dalgliesh R.M. , Li F. , Hamilton W.A. , Prévost S. , Fairclough J.P.A. , and Pynn R.,
Porosity of silica Stöber particles determined by spin-echo small angle neutron scattering,
Soft Matter, **12**, 4709 (2016).

313. Pauly C.S., Genix A.C., Alauzun J.G., Jestin J., Sztucki M., Mutin P.H., and Oberdisse J.,
Structure of alumina-silica nanoparticles grafted with alkylphosphonic acids in poly(ethylacrylate) nanocomposites,
Polymer, **97**, 138 (2016).

314. Piccionello A.P., Calabrese A., Pibiri I., Giacalone V., Pace A., and Buscemi S.,
Synthesis of fluorinated bent-core mesogens (BCMs) containing the 1,2,4-oxadiazole ring,
J. Heterocyclic Chem., **53**, 1935 (2016).

315. Prévost S., Lopian T., Pleines M., Diat O., and Zemb T.,
Small-angle scattering and morphologies of ultra-flexible microemulsions,
J. Appl. Cryst., **49**, 2063 (2016).

316. Saha S., Springer S., Schweinefuss M.E., Pontoni D., Wiebcke M., and Huber K.,
Insight into fast nucleation and growth of zeolitic imidazolate framework-71 by in situ time-resolved light and X-ray scattering experiments,
Crystal Growth Design, **16**, 2002 (2016).

317. Salditt T., and Aeffner S.,

X-ray structural investigations of fusion intermediates: Lipid model systems and beyond,
Semin. Cell Dev. Biol., **60**, 65 (2016)

318. Sauter A., Zhang F., Szekely N.K., Pipich V., Sztucki M., and Schreiber F.,
Structural evolution of metastable protein aggregates in the presence of trivalent salt studied by (V)SANS and SAXS,
J. Phys. Chem. B, **120**, 5564 (2016).

319. Schmiele M. , Busch S. , Morhenn H. , Schindler T. , Schmutzler T. , Schweins R., Lindner P., Boesecke P., Westermann M., Steiniger F., Funari S.S., and Unruh T.,
Structural characterization of lecithin-stabilized tetracosane lipid nanoparticles. Part I: Emulsions,
J. Phys. Chem. B, **120**, 5505 (2016).

320. Schmiele M., Busch S. , Morhenn H. , Schindler T. , Schmutzler T. , Schweins R., Lindner P., Boesecke P., Westermann M., Steiniger F., Funari S.S., and Unruh T.,
Structural characterization of lecithin-stabilized tetracosane lipid nanoparticles. Part II: Suspensions,
J. Phys. Chem. B, **120**, 5513 (2016).

321. Schmitt J. , Hajiw S. , Lecchi A. , Degrouard J. , Salonen A. , Impéror-Clerc M. , and Pansu B.,
Formation of superlattices of gold nanoparticles using Ostwald ripening in emulsions: Transition from fcc to bcc structure,
J. Phys. Chem. B, **120**, 5759 (2016).

322. Schmitt J. , Kjellman T. , Kwasniewski P. , Meneau F. , Pedersen J.S. , Edler K.J., Rennie A.R., Alfredsson V., and Impéror-Clerc M.,
Outset of the morphology of nanostructured silica particles during nucleation followed by ultrasmall-angle X-ray scattering,
Langmuir, **32**, 5162 (2016).

323. Schroer W., Triolo A., and Russina O.,
Nature of mesoscopic organization in protic ionic liquid-alcohol mixtures,
J. Phys. Chem. B, **120**, 2638 (2016).

324. Schulze J. , Möller J. , Weine J. , Julius K. , König N. , Nase J. , Paulus M. , Tolan M., and Winter R.,
Phase behavior of lysozyme solutions in the liquid–liquid phase coexistence region at high hydrostatic pressures,
Phys. Chem. Chem. Phys., **18**, 14252 (2016).

325. Shalaev E., and Soper A.K.,

Water in a soft confinement: Structure of water in amorphous sorbitol,
J. Phys. Chem. B, **120**, 7289 (2016).

326. Shalaev E., Wu K., Shamblin S., Krzyzaniak J.F., and Descamps M.,
Crystalline mesophases: Structure, mobility, and pharmaceutical properties,
Adv. Drug Delivery Rev., **100**, 194 (2016).

327. Shi, L., Carn, F., Boué, F., and Buhler, E.,
Role of the ratio of biopolyelectrolyte persistence length to nanoparticle size in the structural tuning of electrostatic complexes,
Phys. Rev. E, **94**, 032504 (2016).

328. Tanasescu R. , Lanz M.A. , Mueller D. , Tassler S. , Ishikawa T. , Reiter R. , Brezesinski G. ,and Zumbuehl A.,
Vesicle origami and the influence of cholesterol on lipid packing,
Langmuir, **32**, 4896 (2016).

329. Ulama J., Zackrisson Oskolkova M., and Bergenholtz J.,
Polymer-graft-mediated interactions between colloidal spheres,
Langmuir, **32**, 2882 (2016).

330. van der Stam W., Rabouw F.T., Geuchies J.J., Berends A.C., Hinterding S.O.M., Geitenbeek R.G., van der Lit J., Prévost S., Petukhov A.V., and de Mello Donegá C.,
In situ probing of stack-templated growth of ultrathin Cu2-xS nanosheets,
Chem. Mater., **28**, 6381 (2016).

331. Van Vaerenbergh P., Léonardon J., Sztucki M., Boesecke P., Gorini J., Claustre L., Sever F., Morse J., and Narayanan T.,
An upgrade beamline for combined wide, small and ultra small-angle x-ray scattering at the ESRF,
AIP Conf. Proc., **1741**, 030034 (2016).

332. Weir M.P., Johnson D.W., Boothroyd S.C., Savage R.C., Thompson R.L., Parnell S.R., Parnell A.J., King S.M., Rogers S.E., Coleman K.S., and Clarke N.,
Extrinsic Wrinkling and Single Exfoliated Sheets of Graphene Oxide in Polymer Composites,
Chem. Mater., **28**, 1698 (2016).

333. Yang P., Mykhaylyk O.O., Jones E.R., and Armes S.P.,
RAFT Dispersion Alternating Copolymerization of Styrene with N-Phenylmaleimide: Morphology Control and Application as an Aqueous Foam Stabilizer,
Macromolecules, **49**, 6731 (2016).

2015

334. Abécassis B. , Bouet C. , Garnero C. , Constantin D. , Lequeux N. , Ithurria S. , Dubertret B. , Pauw B.R., and Pontoni D.,
Real-time in situ probing of high-temperature quantum dots solution synthesis,
Nano Lett., 15, 2620 (2015).

335. Angelov B., Angelova A., Drechsler M., and Lesieur S.,
Rapid mixing stopped-flow small-angle X-ray scattering study of lipoplex formation at beamline ID02@ESRF,
J. Surf. Invest. (X-ray, Synchrotron and Neutron Techniques), **9**, 105 (2015).

336. Appel R. , Fuchs J. , Tyrrell S.M. , Korevaar P.A. , Stuart M.C.A. , Voets I.K. , Schönhoff M., and Besenius P.,
Steric constraints induced frustrated growth of supramolecular nanorods in water,
Chem. Eur. J., **21**, 19257 (2015).

337. Banc A. , Genix A.C. , Dupas C. , Sztucki M. , Schweins R. , Appavou M.S., and Oberdisse J.,
Origin of small-angle scattering from contrast-matched nanoparticles: A study of chain and filler structure in polymer nanocomposites,
Macromolecules, **48**, 6596 (2015).

338. Barriga H.M.G., Bazin R., Templer R.H., Law R.V., and Ces O.,
Buffer-induced swelling and vesicle budding in binary lipid mixtures of dioleoylphosphatidylcholine:dioleoylphosphatidylethanolamine and dioleoylphosphatidylcholine:lysophosphatidylcholine using small-angle X-ray scattering and 31P static NMR,
Langmuir, **31**, 2979 (2015).

339. Barriga H.M.G. , Tyler A.I.I. , McCarthy N.L.C. , Parsons E.S. , Ces O. , Law R.V., Seddon J.M., and Brooks N.J.,
Temperature and pressure tuneable swollen bicontinuous cubic phases approaching nature's length scales,
Soft Matter, **11**, 600 (2015).

340. Berrod Q. , Lyonnard S. , Guillermo A. , Ollivier J. , Frick B. , Manseri A. , Améduri B., and Gébel G.,
Nanostructure and transport properties of proton conducting self-assembled perfluorinated surfactants: A bottom-up approach toward PFSA fuel cell membranes,
Macromolecules, **48**, 6166 (2015).

341. Beuvier T. , Chavez Panduro E.A. , Kwasniewski P. , Marre S. , Lecoutre C. , Garrabos Y., Aymonier C., Calvignac B., and Gibaud A.,

Implementation of in situ SAXS/WAXS characterization into silicon/glass microreactors,
Lab Chip., **15**, 2002 (2015).

342. Colzi I. , Troyan A.N. , Perito B. , Casalone E. , Romoli R. , Pieraccini G. , Skalko-Basnet N., Adessi A., Rossi F., Gonnelli C., and Ristori S.,
Antibiotic delivery by liposomes from prokaryotic microorganisms: Similia cum similis works better,
Eur. J. Pharmaceutics Biopharmaceutics, **94**, 411 (2015).

343. Cuvier A.S. , Babonneau F. , Berton J. , Stevens C.V. , Fadda G.C. , Péhau-Arnaudet G. , Le Griel P. , Prévost S., Pérez J., and Baccile N.,
Nanoscale platelet formation by monounsaturated and saturated sophorolipids under basic pH conditions,
Chem. Eur. J., **21**, 19265 (2015).

344. Davidi I., and Shenhar R.,
Synthesis of disk-shaped nanoparticle aggregates organized in hierarchical structures in block copolymer matrixes,
Polymer, **64**, 39 (2015).

345. De Luigi A., Mariani A., De Paola M., Re Depaolini A., Colombo L., Russo L., Rondelli V., Brocca P., Adler-Abramovich L., Gazit E., Del Favero E., Cantù L., and Salmona M.,
Doxycycline hinders phenylalanine fibril assemblies revealing a potential novel therapeutic approach in phenylketonuria,
Sci. Rep., **5**, 15902 (2015).

346. Falsini S., Ciani L., Arcangeli A., Di Cola E., Spinozzi F., and Ristori S.,
Physico-chemical properties of gemini micelles studied by X-ray scattering and ESR spectroscopy,
Colloids Surface A, **472**, 101 (2015).

347. Galeazzi R. , Bruni P. , Crucianelli E. , Laudadio E. , Marini M. , Massaccesi L. , Mobbili G., and Pisani M.,
Liposome-based gene delivery systems containing a steroid derivative: Computational and small angle X-ray diffraction study,
RSC Adv., **5**, 54070 (2015).

348. Gao M., Berghaus M., von der Ecken J., Raunser S., and Winter R.,
Condensation agents determine the temperature-pressure stability of F-actin bundles,
Angew. Chem. Int., **54**, 11088 (2015).

349. Gondrexon N. , Cheze L. , Jin Y. , Legay M. , Tissot Q. , Hengl N. , Baup S. , Boldo P. , Pignon F., and Talansier E.,
Intensification of heat and mass transfer by ultrasound: Application to heat exchangers and membrane separation processes,
Ultrasonics Sonochem., **25**, 40 (2015).

350. Hui G.K., Wright D.W., Vennard O.L., Rayner L.E., Pang M., Yeo S.C., Gor J., Molyneux K. , Barratt J., and Perkins S.J.,
The solution structures of native and patient monomeric human IgA1 reveal asymmetric extended structures: Implications for function and IgAN disease,
Biochem. J., **471**, 167 (2015).

351. Jin Y., Hengl N., Baup S., Pignon F., Gondrexon N., Sztucki M., Romdhane A., Guillet A., and Aurousseau M.,
Ultrasonic assisted cross-flow ultrafiltration of starch and cellulose nanocrystals suspensions: Characterization at multi-scales,
Carbohydrate Polym., **124**, 66 (2015).

352. Law-Hine D. , Sahoo A.K. , Bailleux V. , Zeghal M. , Prévost S. , Maiti P.K. , Bressanelli S., Constantin D., and Tresset G.,
Reconstruction of the disassembly pathway of an icosahedral viral capsid and shape determination of two successive intermediates,
J. Phys. Chem. Lett., **6**, 3471 (2015).

353. Linari M. , Brunello E. , Reconditi M. , Fusi L. , Caremani M. , Narayanan T. , Piazzesi G., Lombardi V., and Irving M.,
Force generation by skeletal muscle is controlled by mechanosensing in myosin filaments,
Nature, 528, 276 (2015).

354. Mable C.J., Gibson R.R., Prévost S., McKenzie B.E., Mykhaylyk O.O., and Armes S.P.,
Loading of silica nanoparticles in block copolymer vesicles during polymerization-induced self-assembly: Encapsulation efficiency and thermally triggered release,
J. Am. Chem. Soc., **137**, 16098 (2015).

355. Mable C.J., Warren N.J., Thompson K.L., Mykhaylyk O.O., and Armes S.P.,
Framboidal ABC triblock copolymer vesicles: A new class of efficient Pickering emulsifier,
Chem. Sci., **6**, 6179 (2015).

356. Mangione M.R. , Palumbo Piccionello A. , Marino C. , Ortore M.G. , Picone P. , Vilasi S., Di Carlo M., Buscemi S., Bulone D., and San Biagio P.L.,
Photo-inhibition of Aβ fibrillation mediated by a newly designed fluorinated oxadiazole,

RSC Adv., **5**, 16540 (2015).

357. Mariani A., Russina O., Caminiti R., and Triolo A.,
Structural organization in a methanol:ethylammonium nitrate (1:4) mixture: A joint X-ray/Neutron diffraction and computational study,
J. Mol. Liquids, **212**, 947 (2015).

358. McCarthy N.L.C., Ces O., Law R.V., Seddon J.M., and Brooks N.J.
Separation of liquid domains in model membranes induced with high hydrostatic pressure,
Chem. Comm., **51**, 8675 (2015).

359. Méndez-Morales T., Carrete J., Rodríguez J.R., Cabeza O., Gallego L.J., Russina O., and Varela L.M.,
Nanostructure of mixtures of protic ionic liquids and lithium salts: Effect of alkyl chain length,
Phys. Chem. Chem. Phys., **17**, 5298 (2015).

360. Nechyporchuk O., Belgacem M.N., and Pignon F.,
Concentration effect of TEMPO-oxidized nanofibrillated cellulose aqueous suspensions on the flow instabilities and small-angle X-ray scattering structural characterization,
Cellulose, **22**, 2197 (2015).

361. Parnell A.J. , Washington A.L. , Mykhaylyk O.O. , Hill C.J. , Bianco A. , Burg S.L. , Dennison A.J.C. , Snape M. , Cadby A.J. , Smith A. , Prévost S. , Whittaker D.M., Jones R.A.L., Fairclough J.P.A., and Parker A.R.,
Spatially modulated structural colour in bird feathers,
Sci. Rep., **5**, 18317 (2015).

362. Pauly C.S., Genix A.C., Alauzun J.G., Sztucki M., Oberdisse J., and Mutin P.H.,
Surface modification of alumina-coated silica nanoparticles in aqueous sols with phosphonic acids and impact on nanoparticle interactions,
Phys. Chem. Chem. Phys., **17**, 19173 (2015).

363. Perego S., Del Favero E., De Luca P., Dal Piaz F., Fiorilli A., Cantu' L., and Ferraretto A.,
Calcium bioaccessibility and uptake by human intestinal like cells following in vitro digestion of casein phosphopeptide–calcium aggregates,
Food Funct., **6**, 1796 (2015).

364. Pester C.W., Schmidt K., Ruppel M., Schoberth H.G., and Böker A.,
Electric-field-induced order–order transition from hexagonally perforated lamellae to lamellae,
Macromolecules, **48**, 6206 (2015).

365. Popescu S. , Jerby E. , Meir Y. , Barkay Z. , Ashkenazi D. , Mitchell J.B.A., Le Garrec J.L., and Narayanan T.,
Plasma column and nano-powder generation from solid titanium by localized microwaves in air,
J. Appl. Phys., **118**, 023302 (2015).

366. Ragueh D.M., Meireles M., Cabane B., and Gummel J.,
Filtration of precipitated silica aggregates: Length scales, percolation threshold and yielding behavior,
Sep. Pur. Tech., **156**, 2 (2015).

367. Rayner L.E., Hui G.K., Gor J., Heenan R.K., Dalby P.A., and Perkins S.J.,
The solution structures of two human IgG1 antibodies show conformational stability and accommodate their C1q and FcγR ligands,
J. Biol. Chem., **290**, 8420 (2015).

368. Rodriguez E., Nan R., Li K., Gor J., and Perkins S.J.,
A revised mechanism for the activation of complement C3 to C3b. A molecular explanation of a disease-associated polymorphism,
J. Biol. Chem., **290**, 2334 (2015).

369. Roger S., Sang Y.Y.C., Bee A., Perzynski R., Di Meglio J.M., and Ponton A.,
Structural and multi-scale rheophysical investigation of diphasic magneto-sensitive materials based on biopolymers,
Eur. Phys. J. E, **38**, 88 (2015).

370. Sauter A., Roosen-Runge F., Zhang F., Lotze G., Feoktystov A., Jacobs R.M.J., and Schreiber F.,
On the question of two-step nucleation in protein crystallization,
Faraday Discuss., **179**, 41 (2015).

371. Sauter A., Roosen-Runge F., Zhang F., Lotze G., Jacobs R.M.J., and Schreiber F.,
Real-time observation of nonclassical protein crystallization kinetics,
J. Am. Chem. Soc., **137**, 1485 (2015).

372. Sawalha H., Venema P., Bot A., Flöter E., den Adel R., and van der Linden E.,
The phase behavior of γ-oryzanol and β-sitosterol in edible oil,
J. Am. Oil Chem. Soc., **92**, 1651 (2015).

373. Schmiele M. , Knittel C. , Unruh T. , Busch S. , Morhenn H. , Boesecke P. , Funari S.S. , Schweins R. , Lindner P. , Westermann M. , and Steiniger F.,
Analysis of the structure of nanocomposites of triglyceride platelets and DNA,
Phys. Chem. Chem. Phys., **17**, 17939 (2015).

374. Spinello A., Ortore M.G., Spinozzi F., Ricci C., Barone G., Gammazza A.M., and Piccionello A.P.,
Quaternary structures of GroEL and naïve-Hsp60 chaperonins in solution: A combined SAXS-MD study,
RSC Adv., **5**, 49871 (2015).

375. Taheri S.M. , Michaelis M. , Friedrich T. , Förster B. , Drechsler M. , Römer F.M. , Bösecke P. , Narayanan T. , Weber B. , Rehberg I. , Rosenfeldt S. , and Förster S.,
Self-assembly of smallest magnetic particles,
PNAS, 112, 14484 (2015).

376. Tang T.Y.D. , Brooks N.J. , Ces O. , Seddon J.M. , and Templer R.H.,
Structural studies of the lamellar to bicontinuous gyroid cubic (QGII) phase transitions under limited hydration conditions,
Soft Matter, **11**, 1991 (2015).

377. Thompson K.L., Fielding L.A., Mykhaylyk O.O., Lane J.A., Derry M.J., and Armes S.P.,
Vermicious thermo-responsive pickering emulsifiers,
Chem. Sci., **6**, 4207 (2015).

378. Torbensen K., Rossi F., Pantani O.L., Ristori S., and Abou-Hassan A.,
Interaction of the Belousov-Zhabotinsky reaction with phospholipid engineered membranes,
J. Phys. Chem. B, **119**, 10224 (2015).

379. Tyler A.I.I., Barriga H.M.G., Parsons E.S., McCarthy N.L.C., Ces O., Law R.V., Seddon J.M., and Brooks N.J.,
Electrostatic swelling of bicontinuous cubic lipid phases,
Soft Matter **11**, 3279 (2015).

380. Van Der Meer D.W., Varga J., and Vancso G.J.,
The influence of chain defects on the crystallisation behaviour of isotactic polypropylene,
Express Polym. Lett., **9**, 233 (2015).

381. Wandersman E., Chushkin Y., Dubois E., Dupuis V., Robert A., and Perzynski R.
Field induced anisotropic cooperativity in a magnetic colloidal glass,
Soft Matter, **11**, 7165 (2015).

382. Wang W., Li L., Han H., Tian Y., Zhou Z., and Guo X.,
Tunable immobilization of protein in anionic spherical polyelectrolyte brushes as observed by small-angle X-ray scattering,

Colloid Polym. Sci., **293**, 2789 (2015).

383. Wuithschick M., Birnbaum A., Witte S., Sztucki M., Vainio U., Pinna N., Rademann K., Emmerling F., Kraehnert R., and Polte J.,
Turkevich in new robes: Key questions answered for the most common gold nanoparticle synthesis,
ACS Nano, **9**, 7052 (2015).

384. Zhang H., Scholz A.K., de Crevoisier J., Berghezan D., Narayanan T., Kramer E.J., and Creton C.,
Nanocavitation around a crack tip in a soft nanocomposite: A scanning microbeam small angle X-ray scattering study,
J. Polym. Sci. B, **53**, 422 (2015).

385. Ziane N, and Salmon J.B.,
Solidification of a charged colloidal dispersion investigated using microfluidic pervaporation,
Langmuir, **31**, 7943 (2015).

2014

386. Agra-Kooijman D.M., Singh G., Lorenz A., Collings P.J., Kitzerow H.S., and Kumar S.,
Columnar molecular aggregation in the aqueous solutions of disodium cromoglycate,
Phys. Rev. E, **89**, 062504 (2014).

387. Angelini R., Zaccarelli E., de Melo Marques F.A., Sztucki M., Fluerasu A., Ruocco G., and Ruzicka B.,
Glass-glass transition during aging of a colloidal clay,
Nature Commun., **5**, 4049 (2014).

388. Angelov B., Angelova A., Filippov S.K.,Drechsler M., Stepánek P., and Lesieur S.,
Multicompartment lipid cubic nanoparticles with high protein upload: Millisecond dynamics of formation,
ACS Nano, **8**, 5216 (2014).

389. Baeza G.P., Genix A.C., Degrandcourt C., Gummel J., Couty M., and Oberdisse J.,
Mechanism of aggregate formation in simplified industrial silica styrene–butadiene nanocomposites: Effect of chain mass and grafting on rheology and structure,
Soft Matter, **10**, 6686 (2014).

390. Baeza G.P., Genix A.C., Degrandcourt C., Gummel J., Mujtaba A., Saalwächter K., Thurn-Albrecht T., Couty M., and Oberdisse J.,

Studying twin samples provides evidence for a unique structure-determining parameter in simplifed industrial nanocomposites,
ACS Macro Lett., **3**, 448 (2014).

391. Banc A., Genix A.C.,Chirat M., Dupas C., Caillol S., Sztucki M., and Oberdisse J.,
Tuning structure and rheology of silica–latex nanocomposites with the molecular weight of matrix chains: A coupled SAXS–TEM–simulation approach,
Macromolecules, **47**, 3219 (2014).

392. Bogomolova A., Filippov S.K., Starovoytova L., Angelov B., Konarev P., Sedlacek O., Hruby M., and Stepánek P.,
Study of complex thermosensitive amphiphilic polyoxazolines and their interaction with ionic surfactants. Are hydrophobic, thermosensitive, and hydrophilic moieties equally important?
J. Phys. Chem. B, **118**, 4940 (2014).

393. Boulogne F., Pauchard L., Giorgiutti-Dauphiné F., Botet R., Schweins R., Sztucki M., Li J., Cabane B., and Goehring L.,
Structural anisotropy of directionally dried colloids,
Europhys. Lett., **105**, 38005 (2014).

394. Bouty A., Petitjean L., Degrandcourt C., Gummel J., Kwasniewski P., Meneau F., Boué F., Couty M., and Jestin J.,
Nanofiller structure and reinforcement in model silica/rubber composites: A quantitative correlation driven by interfacial agents,
Macromolecules, **47**, 5365 (2014).

395. Brunello E., Caremani M., Melli L., Linari M., Fernández-Martínez M., Narayanan T., Irving M., Piazzesi G., Lombardi V., and Reconditi M.,
The contributions of filaments and cross-bridges to sarcomere compliance in skeletal muscle,
J. Physiol., **592**, 3881 (2014).

396. Castelletto V., Gouveia R.M., Connon C.J., Hamley I.W., Seitsonen J., Nykänen A., and Ruokolainen J.,
Alanine-rich amphiphilic peptide containing the RGD cell adhesion motif: A coating material for human fibroblast attachment and culture,
Biomater. Sci., **4**, 362 (2014).

397. Chavez Panduro E.A., Granlund H., Sztucki M., Konovalov O., Breiby D.W., and Gibaud A.,
Using three-dimensional 3D grazing-incidence small-angle X-ray scattering (GISAXS) analysis to probe pore deformation in mesoporous silica films,
ACS Appl. Mater. Interfaces, **6**, 2686 (2014).

398. Dahesh M., Banc A., Duri A., Morel M.H., and Ramos L.,
Polymeric assembly of gluten proteins in an aqueous ethanol solvent,
J. Phys. Chem. B, **118**, 11065 (2014).

399. de Kruif C.G.,
The structure of casein micelles: A review of small-angle scattering data,
J. Appl. Cryst., **47**, 1479 (2014).

400. Dehsorkhi A., and Hamley I.W.,
Silica templating of a self-assembling peptide amphiphile that forms nanotapes,
Soft Matter, **10**, 1660 (2014).

401. Del Favero E., Brocca P., Rondelli V., Motta S., Raudino A., and Cantù L.,
Optimizing the crowding strategy: Sugar-based ionic micelles in the dilute-to-condensed regime,
Langmuir, **30**, 9157 (2014).

402. Dvir T., Fink L., Schilt Y., and Raviv U.,
Charging and softening, collapse, and crystallization of dipolar phospholipid membranes by aqueous ionic liquid solutions,
Langmuir, **30**, 14725 (2014).

403. Erlkamp M., Grobelny S., and Winter R.,
Crowding effects on the temperature and pressure dependent structure, stability and folding kinetics of Staphylococcal Nuclease,
Phys. Chem. Chem. Phys., **16**, 5965 (2014).

404. Falsini S., Ristori S., Ciani L., Di Cola E., Supuran C.T., Arcangeli A., and In M.,
Time resolved SAXS to study the complexation of siRNA with cationic micelles of divalent surfactants,
Soft Matter, **10**, 2226 (2014).

405. Ferenczi M.A., Bershitsky S.Y., Koubassova N.A., Kopylova G.V., Fernández M., Narayanan T., and Tsaturyan A.K.,
Why muscle is an efficient shock absorber,
PloS One, **9**, e85739 (2014).

406. Fielding L.A.,Mykhaylyk O.O.,Schmid A.,Pontoni D.,Armes S.P.and Fowler P.W.,
Visible mie scattering from hollow silica particles with particulate shells,
Chem. Mater., **26**, 1270 (2014).

407. Francescangeli O., Vita F., and Samulski E.T.,

The cybotactic nematic phase of bent-core mesogens: State of the art and future developments,
Soft Matter, **10**, 7685 (2014).

408. Georgiades P. , Di Cola E. , Heenan R.K. , Pudney P.D.A. , Thornton D.J. , and Waigh T.A.,
A combined small-angle X-ray and neutron scattering study of the structure of purified soluble gastrointestinal mucins,
Biopolymers, **101**, 1154 (2014).

409. Gillissen M.A.J., Koenigs M.M.E., Spiering J.J.H., Vekemans J.A.J.M., Palmans A.R.A., Voets I.K., and Meijer E.W.,
Triple helix formation in amphiphilic discotics: Demystifying solvent effects in supramolecular self-assembly,
J. Am. Chem. Soc., **136**, 336 (2014).

410. Gonzato C. , Semsarilar M. , Jones E.R. , Li F. , Krooshof G.J.P. , Wyman P. , Mykhaylyk O.O. , Tuinier R. , and Armes S.P.,
Rational synthesis of low-polydispersity block copolymer vesicles in concentrated solution via polymerization-induced self-assembly,
J. Am. Chem. Soc., **136**, 11100 (2014).

411. Growney D.J. , Mykhaylyk O.O. , and Armes S.P.,
Micellization and adsorption behavior of a near-monodisperse polystyrene-based diblock copolymer in nonpolar media,
Langmuir, **30**, 6047 (2014).

412. Himmelein S., Lewe V., Stuart M.A.C., and Ravoo B.J.,
A carbohydrate-based hydrogel containing vesicles as responsive non-covalent cross-linkers,
Chem. Sci., **5**, 1054 (2014).

413. Hofmann C.H., Grobelny S., Erlkamp M., Winter R., and Richtering W.,
Influence of high-pressure on cononsolvency of poly(N-isopropylacrylamide) nanogels in water/methanol mixtures,
Polymer, **55**, 2000 (2014).

414. Jensen G.V., Lund R., Gummel J., Narayanan T., and Pedersen J.S.,
Monitoring the transition from spherical to polymer-like surfactant micelles using small-angle X-ray scattering,
Angew. Chem. Int., **53**, 11524 (2014).

415. Jin Y., Hengl N., Baup S., Pignon F., Gondrexon N., Magnin A., Sztucki M., Narayanan T., Michot L., and Cabane B.,

Effects of ultrasound on colloidal organization at nanometer length scale during cross-flow ultrafiltration probed by in-situ SAXS,
J. Membrane Sci., **453**, 624 (2014).

416. Jin Y., Hengl N., Baup S., Pignon F., Gondrexon N., Sztucki M., Gésan-Guiziou G., Magnin A., Abyan M., Karrouch M., and Blésès D.,
Effects of ultrasound on cross-flow ultrafiltration of skim milk: Characterization from macro-scale to nano-scale,
J. Membrane Sci., **470**, 205 (2014).

417. Jordan E., Roosen-Runge F., Leibfarth S., Zhang F., Sztucki M., Hildebrandt A., Kohlbacher O., and Schreiber F.,
Competing salt effects on phase behavior of protein solutions: Tailoring of protein interaction by the binding of multivalent ions and charge screening,
J. Phys. Chem. B, **118**, 11365 (2014).

418. Jouault N., Dalmas F., Boué F., and Jestin J.,
Nanoparticles reorganizations in polymer nanocomposites under large deformation,
Polymer, **55**, 2523 (2014).

419. Kwasniewski P., Fluerasu A., and Madsen A.,
Anomalous dynamics at the hard-sphere glass transition,
Soft Matter, **10**, 8698 (2014).

420. Lacava J., Ouali A.A., Raillard B., and Kraus T.,
On the behaviour of nanoparticles in oil-in-water emulsions with different surfactants,
Soft Matter, **10**, 1696 (2014).

421. Lim S.H., Jang H.S., Ha J.M., Kim T.H., Kwasniewski P., Narayanan T., Jin K.S., and Choi S.M.,
Highly ordered and highly aligned two-dimensional binary superlattice of a SWNT/cylindrical-micellar system,
Angew. Chem. Int., **53**, 12548 (2014).

422. Lohmeier T., Bredol M., Schreiner E., and Hintze-Bruening H.,
Ordered liquids and hydrogels from alkenyl succinic ester terminated bola-amphiphiles for large-scale applications,
Soft Matter, **10**, 6237 (2014).

423. Longo A., Giannici F., Portale G., Banerjee D., Calandra P., and Liveri V.T.,

Morphology and local organization of water-containing (1R,2S)-dodecyl(2-hydroxy-1-methyl-2-phenylethyl)dimethylammonium bromide reverse micelles dispersed in toluene,
J. Chem. Phys., **141**, 084904 (2014).

424. Mendil-Jakani H., Zamanillo Lopez I., Legrand P.M., Mareau V.H., and Gonon L., *A new interpretation of SAXS peaks in sulfonated poly(ether ether ketone) (sPEEK) membranes for fuel cells,*
Phys. Chem. Chem. Phys., **16**, 11228 (2014).

425. Messa M. , Colombo L. , Del Favero E. , Cantù L. , Stoilova T. , Cagnotto A. , Rossi A. , Morbin M. , Di Fede G. , Tagliavini F. , and Salmona M.,
The peculiar role of the A2V mutation in amyloid-β (Aβ) 1-42 molecular assembly,
J. Biol. Chem., **289**, 24143 (2014).

426. Michels R., Goerigk G., Vainio U., Gummel J., and Huber K.,
Coaggregation of two anionic azo dyestuffs: A combined static light scattering and small-angle X-ray scattering study,
J. Phys. Chem. B, **118**, 7618 (2014).

427. Mourglia-Seignobos E. , Long D.R. , Odoni L., Vanel L., Sotta P., and Rochas C.
Physical mechanisms of fatigue in neat polyamide 6,6,
Macromolecules, **47**, 3880 (2014).

428. Möller J., Grobelny S., Schulze J., Bieder S., Steffen A., Erlkamp M., Paulus M., Tolan M., and Winter R.,
Reentrant liquid-liquid phase separation in protein solutions at elevated hydrostatic pressures,
Phys. Rev. Lett., **112**, 028101 (2014).

429. Möller J., Grobelny S., Schulze J., Steffen A., Bieder S., Paulus M., Tolan M., and Winter R.,
Specific anion effects on the pressure dependence of the protein-protein interaction potential,
Phys. Chem. Chem. Phys., **16**, 7423 (2014).

430. Narayanan T.,
Small-Angle Scattering, in Structure from Diffraction Methods, Eds. D.W. Bruce, D. O'Hare & R.I. Walton, John Wiley & Sons, p. 259-324 (2014).

431. Narayanan T., Gummel J., and Gradzielski M.,
Probing the self-assembly of unilamellar vesicles using time-resolved SAXS,
In Adv. Planar Lipid Bilayers Liposomes, **20**, 171 (2014) ,
Iglic A. (Eds.)Kulkarni C.V. (Eds.) (Academic Press, 2014) pp.171-196.

432. Nguyen R., Jouault N., Zanirati S., Rawiso M., Allouche L., Fuks G., Buhler E., and Giuseppone N.,
Core–shell inversion by pH modulation in dynamic covalent micelles,
Soft Matter, **10**, 3926 (2014).

433. Rayner L.E., Hui G.K., Gor J., Heenan R.K., Dalby P.A., and Perkins S.J.,
The Fab conformations in the solution structure of human immunoglobulin G4 (IgG4) restrict access to its Fc region: Implications for functional activity,
J. Biol. Chem., **289**, 20740 (2014).

434. Reconditi M., Brunello E., Fusi L., Linari M., Martínez M.F., Lombardi V., Irving M., and Piazzesi G.,
Sarcomere-length dependence of myosin filament structure in skeletal muscle fibres of the frog,
J. Physiol., **592**, 1119 (2014).

435. Riou O., Lonetti B., Davidson P., Tan R.P., Cormary B., Mingotaud A.F., Di Cola E., Respaud M., Chaudret B., Soulantica K., and Mauzac M.,
Liquid crystalline polymer–Co nanorod hybrids: Structural analysis and response to a magnetic field,
J. Phys. Chem. B, **118**, 3218 (2014).

436. Roth T., Helfen L., Hallmann J., Samoylova L., Kwasniewski P., Lengeler B., and Madsen A.,
X-ray laminography and SAXS on beryllium grades and lenses and wavefront propagation through imperfect compound refractive lenses,
Proc. SPIE, **9207**, 920702 (2014).

437. Russina O., Sferrazza A., Caminiti R., and Triolo A. ,
Amphiphile meets amphiphile: Beyond the polar–apolar dualism in ionic liquid/alcohol mixtures,
J. Phys. Chem. Lett., **5**, 1738 (2014).

438. Sauter A., Oelker M., Zocher G., Zhang F., Stehle T., and Schreiber F.,
Nonclassical pathways of protein crystallization in the presence of multivalent metal ions,
Cryst. Growth Des., **14**, 6357 (2014).

439. Schröder C.A., Saha S., Huber K., Leoni S., and Wiebcke M.,
Metastable metal imidazolates: Development of targeted syntheses by combining experimental and theoretical investigations of the formation mechanisms,
Zeitschrift Krist., **229**, 807 (2014).

440. Sirotkin S., Mermet A., Bergoin M., Ward V., and Van Etten J.L.,
Viruses as nanoparticles: Structure versus collective dynamics,
Phys. Rev. E, **90**, 022718 (2014).

441. Slyusarenko K., Constantin D., and Davidson P.,
A two-dimensional nematic phase of magnetic nanorods,
J. Chem. Phys., **140**, 104904 (2014).

442. Soliwoda K., Tomaszewska E., Tkacz-Szczesna B., Mackiewicz E., Rosowski M., Bald A., Blanck C.,Schmutz M.,Novák J.,Schreiber F.,Celichowski G., and Grobelny J.,
Effect of the alkyl chain length of secondary amines on the phase transfer of gold nanoparticles from water to toluene,
Langmuir, **30**, 6684 (2014).

443. Tang T.Y.D., Seddon A.M., Jeworrek C., Winter R., Ces O., Seddon J.M., and Templer R.H.,
The effects of pressure and temperature on the energetics and pivotal surface in a monoacylglycerol/water gyroid inverse bicontinuous cubic phase,
Soft Matter, **10**, 3009 (2014).

444. Tiwari R. , Hönders D. , Schipmann S. , Schulte B. , Das P. , Pester C.W. , Klemradt U. , and Walther A.,
A versatile synthesis platform to prepare uniform, highly functional microgels via click-type functionalization of latex particles,
Macromolecules, **47**, 2257 (2014).

445. Varga Z., Wacha A., and Bóta A.,
Osmotic shrinkage of sterically stabilized liposomes as revealed by time-resolved small-angle X-ray scattering,
J. Appl. Cryst., **47**, 35 (2014).

446. Vita F., Sparnacci K., Panzarasa G., Placentino I.F., Marino S., Scaramuzza N., Portale G., Di Cola E., Ferrero C.,Torgova S.I.,Galli G.,Laus M., and Francescangeli O.,
Evidence of cybotactic order in the nematic phase of a main-chain liquid crystal polymer with bent-core repeat unit,
ACS Macro Lett., **3**, 91 (2014).

447. Warren N.J., Mykhaylyk O.O., Mahmood D., Ryan A.J., and Armes S.P.,
RAFT aqueous dispersion polymerization yields poly(ethylene glycol)-based diblock copolymer nano-objects with predictable single phase morphologies,
J. Am. Chem. Soc., **136**, 1023 (2014).

448. Wolf M., Roosen-Runge F., Zhang F., Roth R., Skoda M.W.A., Jacobs R.M.J., Sztucki M., and Schreiber F.,

Effective interactions in protein–salt solutions approaching liquid–liquid phase separation,
J. Mol. Liquids, **200**, 20 (2014).

2013

449. Angelini G., Pisani M., Mobbili G., Marini M., Gasbarri C.,
Neutral liposomes containing crown ether-lipids as potential DNA vectors,
Biochim. Biophys. Acta, **1828**, 2506 (2013).

450. Angelov B., Angelova A., Filippov S.K., Narayanan T., Drechsler M., Stepánek P., Couvreur P., and Lesieur S.,
DNA/fusogenic lipid nanocarrier assembly: Millisecond structural dynamics,
J. Phys. Chem. Lett., **4**, 1959 (2013).

451. Baeza G.P., Genix A.C., Degrandcourt C., Petitjean L., Gummel J., Couty M., and Oberdisse J.,
Multiscale filler structure in simplified industrial nanocomposite silica/SBR systems studied by SAXS and TEM,
Macromolecules, **46**, 317 (2013).

452. Baeza G.P., Genix A.C., Degrandcourt C., Petitjean L., Gummel J., Schweins R., Couty M., and Oberdisse J.,
Effect of grafting on rheology and structure of a simplified industrial nanocomposite silica/SBR,
Macromolecules, **46**, 6621 (2013).

453. Balko J., Lohwasser R.H., Sommer M., Thelakkat M., and Thurn-Albrecht T.,
Determination of the crystallinity of semicrystalline poly(3-hexylthiophene) by means of wide-angle X-ray scattering,
Macromolecules, **46**, 9642 (2013).

454. Bogomolova A., Hruby M., Pánek J., Rabyk M., Turner S., Bals S., Steinhart M., Zhigunov A., Sedlacek O., Stepánek P., and Filippov S.K.,
Small-angle X-ray scattering and light scattering study of hybrid nanoparticles composed of thermoresponsive triblock copolymer F127 and thermoresponsive statistical polyoxazolines with hydrophobic moieties,
J. Appl. Cryst., **46**, 1690 (2013).

455. Chauve M., Barré L., Tapin-Lingua S., da Silva Perez D., Decottignies D., Pérez S., and Lopes Ferreira N.,
Evolution and impact of cellulose architecture during enzymatic hydrolysis by fungal cellulases,
Adv. Biosci. Biotech., **04**, 1095 (2013).

456. Dehsorkhi A., Hamley I.W., Seitsonen J., and Ruokolainen J.,
Tuning self-assembled nanostructures through enzymatic degradation of a peptide amphiphile,
Langmuir, **29**, 6665 (2013).

457. Delhorbe V., Reijerkerk S.R., Cailleteau C., Bathfield M., Chikh L., Gouanvé F., Ogier L., Espuche E., Améduri B., Vidal S., Gébel G., Morin A., and Fichet O.,
Polyelectrolyte/fluorinated polymer interpenetrating polymer networks as fuel cell membrane,
J. Membrane Sci., **429**, 168 (2013).

458. Dingemans T.J., Madsen L.A., Francescangeli O., Vita F., Photinos D.J., Poon C.D., and Samulski E.T.,
The biaxial nematic phase of oxadiazole biphenol mesogens,
Liquid Cryst., **40**, 1655 (2013).

459. Gébel G.,
Structure of membranes for fuel cells: SANS and SAXS analyses of sulfonated PEEK membranes and solutions,
Macromolecules, **46**, 6057 (2013).

460. Grobelny S., Hofmann C.H., Erlkamp M., Plamper F.A., Richtering W., and Winter R.,
Conformational changes upon high pressure induced hydration of poly(N-isopropylacrylamide) microgels,
Soft Matter, **9**, 5862 (2013).

461. Gupta H.S., Krauss S., Kerschnitzki M., Karunaratne A., Dunlop J.W.C., Barber A.H., Boesecke P., Funari S.S., and Fratzl P.,
Intrafibrillar plasticity through mineral/collagen sliding is the dominant mechanism for the extreme toughness of antler bone,
J. Mech. Behavior Biomed. Mater., **28**, 366 (2013).

462. Hajduová J. , Procházka K. , Slouf M. , Angelov B. , Mountrichas G. , Pispas S. , and Stepánek M.
Polyelectrolyte-surfactant complexes of poly[3,5-bis(dimethylaminomethyl)-4-hydroxystyrene]-block-poly(ethylene oxide) and sodium dodecyl sulfate: Anomalous self-assembly behavior,
Langmuir, **29**, 5443 (2013).

463. Hamley I.W. , Dehsorkhi A., and Castelletto V.
Coassembly in binary mixtures of peptide amphiphiles containing oppositely charged residues,

Langmuir, **29**, 5050 (2013).

464. Hamley I.W. , Dehsorkhi A. , Castelletto V. , Seitsonen J. , Ruokolainen J. , and Iatrou H.
Self-assembly of a model amphiphilic oligopeptide incorporating an arginine headgroup,
Soft Matter, **9**, 4794 (2013).

465. Janssen B.M.G., Lempens E.H.M., Olijve L.L.C., Voets I.K., van Dongen J.L.J., De Greef T.F.A., and Merkx M.,
Reversible blocking of antibodies using bivalent peptide-DNA conjugates allows protease-activatable targeting,
Chem. Sci., **4**, 1442 (2013).

466. Jensen G.V., Lund R., Gummel J., Monkenbusch M., Narayanan T., and Pedersen J.S.,
Direct observation of the formation of surfactant micelles under nonisothermal conditions by synchrotron SAXS,
J. Am. Chem. Soc., **135**, 7214 (2013).

467. Khan S., Fung K.W., Rodriguez E., Patel R., Gor J., Mulloy B., and Perkins S.J.,
The solution structure of heparan sulfate differs from that of heparin: Implications for function,
J. Biol. Chem., **288**, 27737 (2013).

468. Kulkarni C.V., Ces O., Templer R.H., and Seddon J.M.,
Pressure effects on a protein-lipid model membrane,
Soft Matter, **9**, 6525 (2013).

469. Le Strat D., Dalmas F., Randriamahefa S., Jestin J., and Wintgens V.,
Mechanical reinforcement in model elastomer nanocomposites with tuned microstructure and interactions,
Polymer, **54**, 1466 (2013).

470. Liedel C., Pester C.W., Ruppel M., Lewin C., Pavan M.J., Urban V.S., Shenhar R., Bösecke P., and Böker A.,
Block copolymer nanocomposites in electric fields: Kinetics of alignment,
ACS Macro Lett., **2**, 53 (2013).

471. Lohwasser R.H., Gupta G., Kohn P., Sommer M., Lang A.S., Thurn-Albrecht T., and Thelakkat M.,
Phase separation in the melt and confined crystallization as the key to well-ordered microphase separated donor–acceptor block copolymers,
Macromolecules, **46**, 4403 (2013).

472. Lorenz A., Zimmermann N., Kumar S., Evans D.R., Cook G., Fernández Martínez M., and Kitzerow H.S.,
X-ray scattering of nematic liquid crystal nanodispersion with negative dielectric anisotropy,
Appl. Optics, **52**, E1 (2013).

473. Lorenz A., Zimmermann N., Kumar S., Evans D.R., Cook G., Martínez M.F., and Kitzerow H.S.,
Doping a mixture of two smectogenic liquid crystals with barium titanate nanoparticles,
J. Phys. Chem., B **117**, 937 (2013).

474. Lund R., Willner L., Richter D., Lindner P., and Narayanan T.,
Kinetic pathway of the cylinder-to-sphere transition in block copolymer micelles observed in situ by time-resolved neutron and synchrotron scattering,
ACS Macro Lett., **2**, 1082 (2013).

475. Meir Y., Jerby E., Barkay Z., Ashkenazi D., Mitchell J.B., Narayanan T., Eliaz N., Le Garrec J.L., Sztucki M., and Meshcheryakov O.,
Observations of ball-lightning-like plasmoids ejected from silicon by localized microwaves,
Materials, **6**, 4011 (2013).

476. Mitchell J.B.A., Le Garrec J.L., Saidani G., Lefeuvre F., and di Stasio S.,
Synchrotron radiation studies of additives in combustion, III: Ferrocene,
Energy Fuels, **27**, 4891 (2013).

477. Motta S., Brocca P., Del Favero E., Rondelli V., Cantù L., Amici A., Pozzi D., and Caracciolo G.,
Nanoscale structure of protamine/DNA complexes for gene delivery,
Appl. Phys. Lett., **102**, 053703 (2013).

478. Nan R., Tetchner S., Rodriguez E., Pao P.J., Gor J., Lengyel I., and Perkins S.J.,
Zinc-induced self-association of complement C3b and factor H: Implications for inflammation and age-related macular degeneration,
J. Biol. Chem., **288**, 19197 (2013).

479. Nicoleau L., Gädt T., Chitu L., Maier G., and Paris O.,
Oriented aggregation of calcium silicate hydrate platelets by the use of comb-like copolymers,
Soft Matter, **9**, 4864 (2013).

480. Olijve L.L.C., Sun T., Narayanan T., Jud C., Davies P.L., and Voets I.K.,

Solution structure of hyperactive type I antifreeze protein,
RSC Adv., **3**, 5903 (2013).

481. Osichow A., Rabe C., Vogtt K., Narayanan T., Harnau L., Drechsler M., Ballauff M., and Mecking S.,
Ideal polyethylene nanocrystals,
J. Am. Chem. Soc., **135**, 11645 (2013).

482. Ossler F., Vallenhag L., Canton S.E., Mitchell J.B.A., Le Garrec J.L., Sztucki M., and di Stasio S.,
Dynamics of incipient carbon particle formation in a stabilized ethylene flame by in-situ extended-small-angle- and wide-angle X-ray scattering,
Carbon, **51**, 1 (2013).

483. Patil N., Invigorito C., Gahleitner M., and Rastogi S.,
Influence of a particulate nucleating agent on the quiescent and flow-induced crystallization of isotactic polypropylene,
Polymer, **54**, 5883 (2013).

484. Patten K. , and Wess T.,
Suprafibrillar structures of collagen, evidence for local organization and auxetic behaviour in architectures,
J. Biophys. Chem., **4**, 103 (2013).

485. Penttilä P.A., Várnai A., Fernández M., Kontro I., Liljeström V., Lindner P., Siika-aho M., Viikari L., and Serimaa R.,
Small-angle scattering study of structural changes in the microfibril network of nanocellulose during enzymatic hydrolysis,
Cellulose, **20**, 1031 (2013).

486. Pérard J., Leyrat C., Baudin F., Drouet E., and Jamin M.,
Structure of the full-length HCV IRES in solution,
Nature Commun., **4**, 1612 (2013).

487. Pisani M., Mobbili G., Marini M., Francescangeli O., Mori V., and Bruni P.,
An x-ray diffraction study of complexes of DNA and lactosyl-functionalised liposomes induced by bivalent metal cations: Coexistence of different symmetries,
Liquid Crystals, **40**, 137 (2013).

488. Pozzi D., Marchini C., Cardarelli F., Rossetta A., Colapicchioni V., Amici A., Montani M., Motta S., Brocca P., Cantù L., and Caracciolo G.,
Mechanistic understanding of gene delivery mediated by highly efficient multicomponent envelope-type nanoparticle systems,
Mol. Pharm., **10**, 4654 (2013).

489. Rayner L.E., Kadkhodayi-Kholghi N., Heenan R.K., Gor J., Dalby P.A., and Perkins S.J.,
The solution structure of rabbit IgG accounts for its interactions with the Fc receptor and complement C1q and its conformational stability,
J. Mol. Biol., **425**, 506 (2013).

490. Reynolds M., Marradi M., Imberty A., Penadés S., and Pérez S.,
Influence of ligand presentation density on the molecular recognition of mannose-functionalised glyconanoparticles by bacterial lectin BC2L-A,
Glycoconjugate J., **30**, 747 (2013).

491. Roblin P., Lebrun P., Rucktooa P., Dewitte F., Lens Z., Receveur-Bréchot V., Raussens V., Villeret V., and Bompard C.,
The structural organization of the N-terminus domain of SopB, a virulence factor of Salmonella, depends on the nature of its protein partners,
Biochim. Biophys. Acta, **1834**, 2564 (2013).

492. Rocha M.A.A., Neves C.M.S.S., Freire M.G., Russina O., Triolo A., Coutinho J.A.P., and Santos L.M.N.B.F.,
Alkylimidazolium based ionic liquids: Impact of cation symmetry on their nanoscale structural organization,
J. Phys. Chem. B, **117**, 10889 (2013).

493. Roger K. , Botet R. , Cabane B.
Coalescence of repelling colloidal droplets: A route to monodisperse populations,
Langmuir, **29**, 5689 (2013).

494. Ruppel M., Pester C.W., Langner K.M., Sevink G.J.A., Schoberth H.G., Schmidt K., Urban V.S., Mays J.W., and Böker A.,
Electric field induced selective disordering in lamellar block copolymers,
ACS Nano, **7**, 3854 (2013).

495. Russina O.,Caminiti R.,Triolo A.,Rajamani S., Melai B.,Bertoli A.,and Chiappe C.,
Physico-chemical properties and nanoscale morphology in N-alkyl-N-methylmorpholinium dicyanamide room temperature ionic liquids,
J. Mol. Liquids, **187**, 252 (2013).

496. Saper G., Kler S., Asor R., Oppenheim A., Raviv U., and Harries D.,
Effect of capsid confinement on the chromatin organization of the SV40 minichromosome,
Nucleic Acids Res., **41**, 1569 (2013).

497. Schmiele M., Schindler T., Unruh T., Busch S., Morhenn H., Westermann M., Steiniger F., Radulescu A., Lindner P., Schweins R., and Boesecke P.,
Structural characterization of the phospholipid stabilizer layer at the solid-liquid interface of dispersed triglyceride nanocrystals with small-angle x-ray and neutron scattering,
Phys. Rev. E, **87**, 062316 (2013).

498. Schneidman-Duhovny D., Hammel M., Tainer J.A., and Sali A.,
Accurate SAXS profile computation and its assessment by contrast variation experiments,
Biophys. J., **105**, 962 (2013).

499. Schoberth H.G., Pester C.W., Ruppel M., Urban V.S., and Böker A.,
Orientation-dependent order-disorder transition of block copolymer lamellae in electric felds,
ACS Macro Lett., **2**, 469 (2013).

500. Sedlak M., Falus P., Steinhart M., Gummel J., Stepánek P., and Filippov S.K.,
Temperature-induced formation of polymeric nanoparticles: In situ SAXS and QENS experiments,
Macromolecular Chem. Phys., **214**, 2841 (2013).

501. Shi L., Carn F., Boué F., Mosser G., and Buhler E.,
Control over the electrostatic self-assembly of nanoparticle semiflexible biopolyelectrolyte complexes,
Soft Matter, **9**, 5004 (2013).

502. Singh C.R., Gupta G., Lohwasser R., Engmann S., Balko J., Thelakkat M., Thurn-Albrecht T., and Hoppe H.,
Correlation of charge transport with structural order in highly ordered melt-crystallized poly(3-hexylthiophene) thin films,
J. Polym. Sci. B, **51**, 943 (2013).

503. Squires A.M. , Hallett J.E. , Beddoes C.M. , Plivelic T.S. , Seddon A.M.
Preparation of films of a highly aligned lipid cubic phase,
Langmuir, **29**, 1726 (2013).

504. Taheri S.M., Rosenfeldt S., Fischer S., Bösecke P., Narayanan T., Lindner P., and Förster S.,
Shear-induced macroscopic "Siamese" twins in soft colloidal crystals,
Soft Matter, **9**, 8464 (2013).

505. Tresset G., Decouche V., Bryche J.F., Charpilienne A., Le Coeur C., Barbier C., Squires G., Zeghal M., Poncet D., and Bressanelli S.,

Unusual self-assembly properties of Norovirus Newbury2 virus-like particles, Arch. Biochem. Biophys., **537**, 144 (2013).

506. Tresset G., Le Coeur C., Bryche J.F., Tatou M., Zeghal M., Charpilienne A., Poncet D., Constantin D., and Bressanelli S.,
Norovirus capsid proteins self-assemble through biphasic kinetics via long-lived stave-like intermediates,
J. Am. Chem. Soc., **135**, 15373 (2013).

507. Velu S.K.P., Yan M., Tseng K.P., Wong K.T., Bassani D.M., and Terech P.,
Spontaneous formation of artificial vesicles in organic media through hydrogen-bonding interactions,
Macromolecules, **46**, 1591 (2013).

508. Villari V., Mazzaglia A., Darcy R., O'Driscoll C.M., and Micali N.,
Nanostructures of cationic amphiphilic cyclodextrin complexes with DNA,
Biomacromolecules, **14**, 811 (2013).

509. Vita F.,Placentino I.F.,Ferrero C., Singh G., Samulski E.T., and Francescangeli O.,
Electric field effect on the phase diagram of a bent-core liquid crystal,
Soft Matter, **9**, 6475 (2013).

510. Wade M., Tucker I., Cunningham P., Skinner R., Bell F., Lyons T., Patten K., González L., and Wess T.,
Investigating the origins of nanostructural variations in differential ethnic hair types using X-ray scattering techniques,
Int. J. Cosmet. Sci., **35**, 430 (2013).

511. Wagner J., Märkert C., Fischer B., and Müller L.,
Direction dependent diffusion of aligned magnetic rods by means of X-ray photon correlation spectroscopy,
Phys. Rev. Lett., **110**, 048301 (2013).

512. Wandersman E., Cebers A., Dubois E., Mériguet G., Robert A., and Perzynski R.,
The cage elasticity and under-field structure of concentrated magnetic colloids probed by small angle X-ray scattering,
Soft Matter, **9**, 11480 (2013).

513. Wuithschick M., Paul B., Bienert R., Sarfraz A., Vainio U., Sztucki M., Kraehnert R., Strasser P., Rademann K., Emmerling F., and Polte J.,
Size-controlled synthesis of colloidal silver nanoparticles based on mechanistic understanding,
Chem. Mater., **25**, 4679 (2013).

514. Yan M., Velu S.K.P., Maréchal M., Royal G., Galvez J., and Terech P.,
Hierarchical aggregation mechanism in heat-set metallosupramolecular gels using a tritopic functional ligand exhibiting temperature-triggered cis-to-trans molecular conversions,
Soft Matter, **9**, 4428 (2013).

2012

515. Bauer C. , Bauduin P. , Girard L. , Diat O. , and Zemb T.,
Hydration of sugar based surfactants under osmotic stress: A SAXS study,
Colloids Surface A, **413**, 92 (2012).

516. Bonechi C.,Martini S., Ciani L.,Lamponi S.,Rebmann H., Rossi C., and Ristori, S.,
Using Liposomes as Carriers for Polyphenolic Compounds: The Case of Trans-Resveratrol,
PLoS One, **7**, e41438 (2012).

517. Bot A., Gilbert E.P., Bouwman W.G., Sawalha H., den Adel R., Garamus V.M., Venema P., van der Linden E., and Floter, E.,
Elucidation of density profile of self-assembled sitosterol + oryzanol tubules with small-angle neutron scattering,
Faraday Discuss., **158**, 223 (2012).

518. Botet R. , and Cabane B.,
Simple inversion formula for the small-angle X-ray scattering intensity from polydisperse systems of spheres,
J. Appl. Cryst., **45**, 406 (2012).

519. Bressel K., Muthig M., Prevost S., Gummel J., Narayanan T., and Gradzielski M.,
Shaping Vesicles - Controlling Size and Stability by Admixture of Amphiphilic Copolymer,
ACS Nano, **6**, 5858 (2012).

520. Castelletto V., Cheng G., Stain C., Connon C.J., and Hamley I.W.,
Self-assembly of a peptide amphiphile containing L-carnosine and its mixtures with a multilamellar vesicle forming lipid,
Langmuir, **28**, 11599 (2012).

521. Castelletto V., Hamley I.W., Adamcik J., Mezzenga R., and Gummel J.,
Modulating self-assembly of a nanotape-forming peptide amphiphile with an oppositely charged surfactant,
Soft Matter, **8**, 217 (2012).

522. Chavez-Panduro E.A., Beuvier T., Fernandez-Martınez M., Hassani L., Calvignac B., Boury F., and Gibaud, A.,
Small-angle X-ray scattering analysis of porous powders of $CaCO_3$,
J. Appl. Cryst., **45**, 881 (2012).

523. Czjzek M., Fierobe H.P., and Receveur-Bréchot V.,
Small-angle X-ray scattering and crystallography: A winning combination for exploring the multimodular organization of cellulolytic macromolecular complexes,
Method Enzymol., **510**, 183 (2012).

524. Del Favero E., Raudino A., Pannuzzo M., Brocca P., Motta S., and Cantú L.,
Transient Step-Like Kinetics of Enzyme Reaction on Fragmented-Condensed Substrates,
J. Phys. Chem. B, **116**, 9570 (2012).

525. Daughdrill G.W., Kashtanov S., Stancik A., Hill S.E., Helms G., Muschol M., Receveur-Bréchot V., and Ytreberg F.M.,
Understanding the structural ensembles of a highly extended disordered protein,
Mol. BioSyst., **8**, 308 (2012).

526. Eyssautier J., Espinat D., Gummel J., Levitz P., Becerra M., Shaw J., and Barré L.,
Mesoscale organization in a physically separated vacuum residue: Comparison to asphaltenes in a simple solvent,
Energy Fuels, **26**, 2680 (2012).

527. Fielding L.A., Mykhaylyk O.O., Armes S.P., Fowler P.W., Mittal V., and Fitzpatrick S.,
Correcting for a density distribution: Particle size analysis of core-shell nanocomposite particles using disk centrifuge photosedimentometry,
Langmuir, **28**, 2536 (2012).

528. Filippov S.K. , Pánek J. , and Stepánek P.,
Polymeric nanoparticles stabilized by surfactants: Controlled phase separation approach,
In: "Smart Nanoparticles Technology", Abbass H.A. (Eds.) (InTech, 2012) pp.221.

529. Furse S., Brooks N.J., Seddon A.M., Woscholski R., Templer R.H., Tate E.W., Gaffney P.R.J., and Ces O.,
Lipid membrane curvature induced by distearoyl phosphatidylinositol 4-phosphate,
Soft Matter, **8**, 3090 (2012).

530. García-Fandiño R., Bernadó P., Ayuso-Tejedor S., Sancho J., and Orozco M.,
Defining the nature of thermal intermediate in 3 state folding proteins: Apoflavodoxin, a study case,
PLoS Comp. Biol., **8**, e1002647 (2012).

531. Gondikas A.P. , Mason A. , Auffan M. , Lau B.L.T. , and Hsu-Kim H.,
Early-stage precipitation kinetics of zinc sulfide nanoclusters forming in the presence of cysteine,
Chem. Geol., **329**, 10 (2012).

532. Hamley I.W., Cheng G., Castelletto V., Handschin S., and Mezzenga R.,
Fibrillisation of ring-closed amyloid peptides,
Chem. Comm., **48**, 3757 (2012).

533. Heinen M., Zanini F., Roosen-Runge F., Fedunová D., Zhang F., Hennig M., Seydel T., Schweins R., Sztucki M., Antalík M., Schreiber F., and Nägele G.,
Viscosity and diffusion: Crowding and salt effects in protein solutions,
Soft Matter, **8**, 1404 (2012).

534. Holland C., Vollrath F., Ryan A.J., and Mykhaylyk O.O.,
Silk and synthetic polymers: Reconciling 100 degrees of separation,
Adv. Mater., **24**, 105 (2012).

535. Horvat C.I., Zhu X., Türp D., Vinokur R.A., Demco D.E., Fechete R., Conradi O., Graichen A., Anokhin D., Ivanov D.A., and Möller M.,
Perfluorosulfonic acid ionomer - silica composite membranes prepared using hyperbranched polyethoxysiloxane for polymer electrolyte membrane fuel cells,
Int. J. Hydr. Energy, **37**, 14454 (2012).

536. Hubert F., Testard F., Thill A., Kong Q., Tache O., and Spalla O.,
Growth and Overgrowth of Concentrated Gold Nanorods: Time Resolved SAXS and XANES,
Cryst. Growth Des., **12**, 1548 (2012).

537. Jouault N., Dalmas F., Boué F., and Jestin J.,
Multiscale characterization of filler dispersion and origins of mechanical reinforcement in model nanocomposites,
Polymer, **53**, 761, (2012).

538. Jouault N., Xiang Y., Moulin E., Fuks G., Giuseppone N., and Buhler E.,
Hierarchical supramolecular structuring and dynamical properties of water soluble polyethylene glycol-perylene self-assemblies,
Phys. Chem. Chem. Phys., **14**, 5718 (2012).

539. Jusufi A., Kohlmeyer A., Sztucki M., Narayanan T., and Ballauff M.,
Self-Assembly of Charged Surfactants: Full Comparison of Molecular Simulations and Scattering Experiments,
Langmuir, **28**, 17632 (2012).

540. Khan S. , Nan R. , Gor J. , Mulloy B. , and Perkins S.J.,
Bivalent and co-operative binding of complement Factor H to heparan sulfate and heparin,
Biochem. J., **444**, 417 (2012).

541. Kler S. , Asor R. , Li C. , Ginsburg A. , Harries D. , Oppenheim A. , Zlotnick A. , and Raviv U.,
RNA encapsidation by SV40-derived nanoparticles follows a rapid two-state mechanism,
J. Am. Chem. Soc., **134**, 8823 (2012).

542. Kohn P. , Huettner S., Komber H., Senkovskyy V., Tkachov R., Kiriy A., Friend R.H., Steiner U., Huck W.T.S., Sommer J.U., and Sommer M.,
On the role of single regiodefects and polydispersity in regioregular poly(3-hexylthiophene): Defect distribution, synthesis of defect-free chains, and a simple model for the determination of crystallinity,
J. Am. Chem. Soc., **134**, 4790 (2012).

543. Kohn P., Huettner S., Steiner U., and Sommer M.,
Fractionated crystallization of defect-free poly(3-hexylthiophene),
ACS Macro Lett., **1**, 1170 (2012).

544. de Kruif K.G., Huppertz T., Urban V.S., and Petukhov A.V.,
Casein micelles and their internal structure,
Adv.Colloid Interf. Sci., **171-172**, 36 (2012).

545. Lacava J., Born P., and Kraus T.,
Nanoparticle clusters with Lennard-Jones geometries,
Nano Lett., **12**, 3279 (2012).

546. Li J., Cabane B.F., Sztucki M., Gummel J., and Goehring L.,
Drying dip-coated colloidal films,
Langmuir, **28**, 200 (2012).

547. Li K., Gor J., Holers V.M., Storek M.J., and Perkins S.J.,
Solution structure of TT30, a novel complement therapeutic agent, provides insight into its joint binding to complement C3b and C3d,
J. Mol. Biol., **418**, 248 (2012).

548. Liu J., Pancera S., Boyko V., Gummel J., Nayuk R., and Huber K.,
Impact of sodium polyacrylate on the amorphous calcium carbonate formation from supersaturated solution,
Langmuir, **28**, 3593 (2012).

549. Liedel C., Pester C.W., Ruppel M., Urban V.S., and Böker A.,
Beyond Orientation: The Impact of Electric Fields on Block Copolymers,
Macromol. Chem. Phys., **213,** 259 (2012).

550. Ma W., Baron A., Guyot S., Bouhallab S., and Zanchi D.,
Kinetics of the formation of β-casein/tannin mixed micelles,
RSC Adv., **2**, 3934 (2012).

551. Mang X., Zeng X., Tang B., Liu F., Ungar G., Zhang R., Cseh L., and Mehl G.H.,
Control of anisotropic self-assembly of gold nanoparticles coated with mesogens,
J. Mater. Chem., **22**, 11101 (2012).

552. Miller A. , Phillips A. , Gor J. , Wallis R. , and Perkins S.J.,
Near-planar solution structures of mannose-binding lectin oligomers provide insight on activation of lectin pathway of complement,
J. Biol. Chem., **287**, 3930 (2012).

553. Mykhaylyk O.O. , Parnell A.J. , Pryke A. , and Fairclough J.P.A.,
Direct imaging of the orientational dynamics of block copolymer lamellar phase subjected to shear flow,
Macromolecules, **45**, 5260 (2012).

554. Newman E.R. , Kneale G.G. , Ravelli R.B.G. , Karuppasamy M. , Nejadasl F.K. , Taylor I.A. , and McGeehan J.E.,
Large multimeric assemblies of nucleosome assembly protein and histones revealed by small-angle X-ray scattering and electron microscopy,
J. Biol. Chem., **287**, 26657 (2012).

555. Nygård K., and Konovalov O.,
Decay of interfacial fluid ordering probed by X-ray reflectivity,
Soft Matter, **8**, 5180 (2012).

556. Orsi D., Fluerasu A., Moussaıd A., Zontone F., Cristofolini L., and Madsen A.,
Dynamics in dense hard-sphere colloidal suspensions,
Phys. Rev. E, **85**, 011402 (2012).

557. Park-Holohan S., Linari M., Reconditi M., Fusi L., Brunello E., Irving M., Dolfi M., Lombardi V., West T.G., Curtin N.A., Woledge R.C., and Piazzesi G.,

Mechanics of myosin function in white muscle fibres of the dogfish, Scyliorhinus canicula,
J. Physiol., **590**, 1973 (2012).

558. Pawar G.M. , Koenigs M. , Fahimi Z. , Cox M. , Voets I.K. , Wyss H.M. , and Sijbesma R.P.,
Injectable hydrogels from segmented PEG-bisurea copolymers,
Biomacromolecules, **13**, 3966 (2012).

559. Pignon F., Abyan M., David C., Magnin A., and Sztucki M.,
In Situ Characterization by SAXS of Concentration Polarization Layers during Cross-Flow Ultrafiltration of Laponite Dispersions,
Langmuir, **28**, 1083 (2012).

560. Poulos A.S., Constantin D., Davidson P., Imp´eror-Clerc M., Pansu B., and Rouzi`ere S.,
The interaction of charged nanoparticles at interfaces,
Europhys. Lett., **100**, 18002 (2012).

561. Reddy N.K., Zhang Z., Lettinga M.P., Dhont J.K.G., and Vermant J.,
Probing structure in colloidal gels of thermoreversible rodlike virus particles: Rheology and scattering,
J. Rheol., **56**, 1153 (2012).

562. Rosenbaum E., Gabel F., Asunción Durá M., Finet S., Cléry-Barraud C., Masson P., and Franzetti, B.,
Effects of hydrostatic pressure on the quaternary structure and enzymatic activity of a large peptidase complex from Pyrococcus horikoshii,
Arch. Biochem. Biophys., **517**, 104 (2012).

563. Rudorf S., and Rädler J.O.,
Self-assembly of stable monomolecular nucleic acid lipid particles with a size of 30 nm,
J. Am. Chem. Soc., **134**, 11652 (2012).

564. Russina O., and Triolo A.,
New experimental evidence supporting the mesoscopic segregation model in room temperature ionic liquids,
Faraday Discus., **154**, 97 (2012).

565. Russina O., Triolo A., Gontrani L., and Caminiti R.,
Mesoscopic structural heterogeneities in room-temperature ionic liquids,
J. Phys. Chem. Lett., **3**, 27 (2012).

566. Sawalha H., den Adel R., Venema P., Bot A., Flöter E., and van der Linden E.,
Organogel-emulsions with mixtures of β-sitosterol and γ-oryzanol: Influence of water activity and type of oil phase on gelling capability,
J. Agricul. Food Chem., **60**, 3462 (2012).

567. Schroer M.A., Tolan M., and Winter R.,
Exploring the thermodynamic derivatives of the structure factor of dense protein solutions,
Phys. Chem. Chem. Phys., **14**, 9486 (2012).

568. Seto J., Ma Y., Davis S.A., Meldrum F., Gourrier A., Kim Y.Y., Schilde U., Sztucki M., Burghammer M., Maltsev S., Jäger C., and Cölfen H.,
Structure-property relationships of a biological mesocrystal in the adult sea urchin spine,
PNAS, **109**, 3699 (2012).

569. Shaw K.P., Brooks N.J. , Clarke J.A., Ces O., Seddon J.M., and Law R.V.,
Pressure-temperature phase behaviour of natural sphingomyelin extracts,
Soft Matter, **8**, 1070 (2012).

570. Shi L., Carn F., Boué F., Mosser G., and Buhler E.,
Nanorods of well-defined length and monodisperse cross-section obtained from electrostatic complexation of nanoparticles with a semiflexible biopolymer,
ACS Macro Lett., **1**, 857 (2012).

571. Skouri-Panet F., Michiel M., Férard C., Duprat E., and Finet S.,
Structural and functional specificity of small heat shock protein HspB1 and HspB4, two cellular partners of HspB5: Role of the in vitro hetero-complex formation in chaperone activity,
Biochimie, **94**, 975 (2012).

572. Spevácek J., Dybal J., Starovoytova L., Zhigunov A., and Sedláková Z.,
Temperature-induced phase separation and hydration in poly(N-vinylcaprolactam) aqueous solutions: A study by NMR and IR spectroscopy, SAXS, and quantum-chemical calculations,
Soft Matter, **8**, 6110 (2012).

573. Spinozzi F., Mariani P., Micetic I., Ferrero C., Pontoni D., and Beltramini M.,
Quaternary structure heterogeneity of oligomeric proteins: A SAXS and SANS study of the dissociation products of Octopus vulgaris hemocyanin,
PloS One, **7**, e49644 (2012).

574. Sztucki M., Di Cola E., and Narayanan, T.,
Anomalous small-angle X-ray scattering from charged soft matter,

Eur. Phys. J. Special Topics, **208**, 319 (2012).

575. Tang T.Y.D., Brooks N.J., Jeworrek C., Ces O., Terrill N.J., Winter R., Templer R.H., and Seddon J.M.,
Hydrostatic pressure effects on the lamellar to gyroid cubic phase transition of monolinolein at limited hydration,
Langmuir, **28**, 13018 (2012).

576. Triolo A., Russina O., Caminiti R., Shirota H. , Lee H.Y., Santos C.S., Murthy N.S., and Castner Jr E.W.,
Comparing intermediate range order for alkyl- vs. ether-substituted cations in ionic liquids,
Chem. Comm., **48**, 4959 (2012).

577. Trzaskowski J., Rabe C., Vogtt K., Krumova M., Goerigk G., Ballauff M., and Mecking S.,
Anisotropic nanoparticles of precise microstructure polyolefins,
Chem. Comm. **48**, 9153 (2012).

578. Tsarkova L.,
Distortion of a unit cell versus phase transition to nonbulk morphology in frustrated films of cylinder-forming polystyrene-b-polybutadiene diblock copolymers,
Macromolecules, **45**, 7985 (2012).

579. van der Kooij H.M., Spruijt E., Voets I.K., Fokkink R., Stuart M.A.C., and van der Gucht J.,
On the stability and morphology of complex coacervate core micelles: From spherical to wormlike micelles,
Langmuir, **28**, 14180 (2012).

580. Varga Z., Wacha A., Vainio U., Gummel J., Bóta A.,
Characterization of the PEG layer of sterically stabilized liposomes: A SAXS study,
Chem. Phys. Lipids, **165**, 387 (2012).

581. Zhang F., Roosen-Runge F., Sauter A., Roth R., Skoda M.W.A., Jacobs R.M.J., Sztucki M., and Schreiber F.,
The role of cluster formation and metastable liquid-liquid phase separation in protein crystallization,
Faraday Discus., **159**, 313 (2012).

582. Zhang F., Roth R., Wolf M., Roosen-Runge F., Skoda M.W.A., Jacobs R.M.J., Stzucki M., and Schreiber F.,

Charge-controlled metastable liquid-liquid phase separation in protein solutions as a universal pathway towards crystallization,
Soft Matter, **8**, 1313 (2012).

2011

583. Aerts A., Follens L.R.A., Biermans E., Bals S., Van Tendeloo G., Loppinet B., Kirschhock C.E.A., and Martens J.A.,
Modelling of synchrotron SAXS patterns of silicalite-1 zeolite during crystallization,
Phys. Chem. Chem. Phys., **13**, 4318 (2011).

584. Amenitsch H. , Caracciolo G. , Foglia P. , Fuscoletti V. , Giansanti P. , Marianecci C. , Pozzi D. and Laganà A.,
Existence of hybrid structures in cationic liposome/DNA complexes revealed by their interaction with plasma proteins,
Colloid Surface B, **82**, 141 (2011).

585. Ayuso-Tejedor S., García-Fandiño R., Orozco M., Sancho J., and Bernadó P.,
Structural analysis of an equilibrium folding intermediate in the apoflavodoxin native ensemble by small-angle X-ray scattering,
J. Mol. Biol., **406**, 604 (2011).

586. Baldock C., Oberhauser A.F., Ma L., Lammie D., Siegler V., Mithieux S.M., Tu Y., Chow J.Y.H., Suleman F., Malfois M., Rogers S., Guo L., Irving T.C., Wess T.J. and Weiss A.S.,
Shape of tropoelastin, the highly extensible protein that controls human tissue elasticity,
PNAS, **108**, 4322 (2011).

587. Balmer J.A., Mykhaylyk O.O., Armes S.P., Fairclough J.P.A., Ryan A.J., Gummel J., Murray M.W., Murray K.A. and Williams N.S.J.,
Time-resolved small-angle X-ray scattering studies of polymer-silica nanocomposite particles: Initial formation and subsequent silica redistribution,
J. Am. Chem. Soc., **133**, 826 (2011).

588. Balzano L. , Rastogi S. and Peters G.,
Self-nucleation of polymers with flow: The case of bimodal polyethylene,
Macromolecules, **44**, 2926 (2011).

589. Biosa G. , Ristori S. , Spalla O. , Rustici M. and Hauser M.J.B.,
Macroscopic dynamics as reporter of mesoscopic organization: The Belousov-Zhabotinsky reaction in aqueous layers of DPPC lamellar phases,
J. Phys. Chem. A, **115**, 3227 (2011).

590. Bot A. , den Adel R. , Regkos C. , Sawalha H. , Venema P. , and Flöter E.,
Structuring in β-sitosterol+γ-oryzanol-based emulsion gels during various stages of a temperature cycle,
Food Hydrocolloids, **25**, 639 (2011).

591. Brooks N.J. , Ces O. , Templer R.H. and Seddon J.M.,
Pressure effects on lipid membrane structure and dynamics,
Chem. Phys. Lipids, **164**, 89 (2011).

592. Castelletto V., Moulton C.M., Cheng G., Hamley I.W., Hicks M.R., Rodger A., Lopez-Perez D.E., Revilla-Lopez G., and Aleman C.,
Self-assembly of Fmoc-tetrapeptides based on the RGDS cell adhesion motif,
Soft Matter, **7**, 11405 (2011).

593. Chevigny C., Dalmas F., Di Cola E., Gigmes D., Bertin D., Boué F., and Jestin J.,
Polymer-grafted-nanoparticles nanocomposites: Dispersion, grafted chain conformation, and rheological behavior,
Macromolecules, **44**, 122 (2011).

594. Cravillon J., Schroder C.A., Nayuk R., Gummel J., Huber K., and Wiebcke M.,
Fast nucleation and growth of ZIF-8 nanocrystals monitored by time-resolved in situ small-angle and wide-angle X-ray scattering,
Angewandte Chemie Int., **50**, 8067 (2011).

595. Del Favero E., Brocca P., Motta S., Rondelli V., Sonnino S., and Cantú L.,
Nanoscale structural response of ganglioside-containing aggregates to the interaction with sialidase,
J. Neurochem., **116**, 833 (2011).

596. di Stasio S. , LeGarrec J.L. and Mitchell J.B.A.,
Synchrotron radiation studies of additives in combustion, II: Soot agglomerate microstructure change by alkali and alkaline-earth metal addition to a partially premixed flame,
Energy Fuels, **25**, 916 (2011).

597. Durand E. , Waksman G. and Receveur-Bréchot V.,
Structural insights into the membrane-extracted dimeric form of the ATPase TraB from the Escherichia coli pKM101 conjugation system,
BMC Structural Biology, **11**, 4-1 (2011).

598. Escalé P. , Rubatat L. , Derail C. , Save M. and Billon L.,
pH sensitive hierarchically self-organized bioinspired films,
Macromolecular Rapid Comm., **32**, 1072 (2011).

599. Eyssautier J., Levitz P., Espinat D., Jestin J., Gummel J., Grillo I., and Barré L.,
Insight into asphaltene nanoaggregate structure inferred by small angle neutron and X-ray scattering,
J. Phys. Chem. B, **115**, 6827 (2011).

600. Förster S., Fischer S., Zielske K., Schellbach C., Sztucki M., Lindner P., and Perlich J.,
Calculation of scattering-patterns of ordered nano- and mesoscale materials,
Adv. Colloid Interface Sci., **163**, 53 (2011).

601. Fusi L. , Brunello E. , Reconditi M. , Elangovan R. , Linari M. , Sun Y.B. , Narayanan T. , Panine P. , Piazzesi G. , Irving M. and Lombardi V.,
Interference X-ray diffraction from single muscle cells reveals the molecular basis of muscle braking,
"Optical Fluorescence Microscopy: From the Spectral to the Nano Dimension", Diaspro A. (Eds.) (Springer Verlag, 2011) pp.183-189.

602. Gabel, F.,
Combining Small-angle Neutron and X-ray Scattering for Studying Protein Denaturation,
Neutron News, **22**, 20 (2011).

603. González-Pérez A. , Castelletto V. , Hamley I.W. and Taboada P.,
Biomimetic triblock copolymer membranes: From aqueous solutions to solid supports,
Soft Matter, **7**, 1129 (2011).

604. Gummel J. , Sztucki M. , Narayanan T. and Gradzielski M.,
Concentration dependent pathways in spontaneous self-assembly of unilamellar vesicles,
Soft Matter, **7**, 5731 (2011).

605. Gupta P. , Gupta A. , Shukla A. , Ganguli T. , Sinha A.K. , Principi G. and Maddalena A.,
Structural evolution and the kinetics of Cu clustering in the amorphous phase of Fe-Cu-Nb-Si-B alloy,
J. Appl. Phys., **110**, 033537 (2011).

606. Henry E., Dif A., Schmutz M., Legoff L., Amblard F., Marchi-Artzner V., and Artzner F.,
Crystallization of Fluorescent Quantum Dots within a Three-Dimensional Bio-Organic Template of Actin Filaments and Lipid Membranes,
Nano Lett., **11**, 5443 (2011).

607. Henzler K., Haupt B., Rosenfeldt S., Harnau L., Narayanan T., and Ballauff M.,

Interaction strength between proteins and polyelectrolyte brushes: a small angle X-ray scattering study,
Phys. Chem. Chem. Phys., **13**, 17599 (2011).

608. Huettner S., Sommer M., Hodgkiss J., Kohn P., Thurn-Albrecht T., Friend R.H., Steiner U., and Thelakkat M.,
Tunable charge transport using supramolecular self-assembly of nanostructured crystalline block copolymers,
ACS Nano, **5**, 3506 (2011).

609. Jensen M.R., Communie G., Ribeiro Jr E.A., Martinez N., Desfosses A., Salmon L., Mollica L., Gabel F., Jamin M , Longhi S., Ruigrok R.W.H., and Blackledge M.,
Intrinsic disorder in measles virus nucleocapsids,
PNAS, **108**, 9839 (2011).

610. Jeworrek C. , Uelner S. and Winter R.,
Phase behavior and kinetics of pressure-jump induced phase transitions of bicellar lipid mixtures,
Soft Matter, **7**, 2709 (2011).

611. Khan S. , Rodriguez E. , Patel R. , Gor J. , Mulloy B., and Perkins S.J.,
The solution structure of heparan sulfate differs from that of heparin: Implications for function,
J. Biol. Chem., **286**, 24842 (2011).

612. Koubassova N.A. and Tsaturyan A.K.,
Molecular mechanism of actin-myosin motor in muscle,
Biochemistry (Moscow), **76**, 1484 (2011).

613. Liddle S.M. , Narayanan T. and Poon W.C.K.,
Polydispersity effects in colloid-polymer mixtures,
J. Phys. Condensed Matter, **23**, 194116 (2011).

614. Macheboeuf P., Piuzzi M.,Finet S.,Bontems F.,Pérez J.,Dessen A.,and Vachette P.,
Solution X-ray scattering study of a full-length class A penicillin-binding protein,
Biochem. Biophys. Res. Comm., **405**, 107 (2011).

615. Märkert C. , Fischer B. and Wagner J.,
Small-angle scattering from spindle-shaped colloidal hematite particles in external magnetic fields,
J. Appl. Cryst., **44**, 441 (2011).

616. Mitchell J.B.A., Jerby E., Shamir Y., Meir Y., Le Garrec J.-L., and Sztucki M.,

Rapid internal bubble formation in a microwave heated polymer observed in real-time by X-ray scattering,
Polymer Degrad. Stabil., **96**, 1788 (2011).

617. Molinier A., Nouailler M. , Valette O. , Tardif C. , Receveur-Bréchot V. and Fierobe H.P.,
Synergy, structure and conformational flexibility of hybrid cellulosomes displaying various inter-cohesins linkers,
J. Mol. Biol., **405,** 143 (2011).

618. Mykhaylyk O.O. , Fernyhough C.M. , Okura M. , Fairclough J.P.A. , Ryan A.J. , and Graham R.,
Monodisperse macromolecules - A stepping stone to understanding industrial polymers,
Eur. Polym. J., **47**, 447 (2011).

619. Nan R. , Farabella I. , Schumacher F.F. , Miller A. , Gor J. , Martin A.C.R. , Jones D.T. , Lengyel I. and Perkins S.J.,
Zinc binding to the Tyr402 and His402 allotypes of complement factor H: Possible implications for age-related macular degeneration,
J. Mol. Biol., **408**, 714 (2011).

620. Ortore M.G., Spinozzi F., Vilasi S., Sirangelo I., Irace G., Shukla A., Narayanan T., Sinibaldi R., and Mariani P.,
Time-resolved small-angle x-ray scattering study of the early stage of amyloid formation of an apomyoglobin mutant,
Phys. Rev. E, **84**, 061904 (2011).

621. Parnell A.J. , Tzokova N. , Pryke A. , Howse J.R. , Mykhaylyk O.O. , Ryan A.J. , Panine P. and Fairclough J.P.A.,
Shear ordered diblock copolymers with tuneable optical properties,
Phys. Chem. Chem. Phys., **13**, 3179 (2011).

622. Perkins S.J. , Nan R. , Li K. , Khan S. and Abe Y.,
Analytical ultracentrifugation combined with X-ray and neutron scattering: Experiment and modeling,
Methods, **54**, 181 (2011).

623. Pester, C.W., M. Ruppel , H.G. Schoberth , K. Schmidt , C. Liedel , P. van Rijn , K.A. Schindler, S. Hiltl , T. Czubak, J. Mays, V.S. Urban, and A. Böker,
Piezoelectric Properties of Non-Polar Block Copolymers,
Adv. Mater., **23**, 4047 (2011).

624. Pisani M., Mobbili G., Placentino I. F., Smorlesi A., and Bruni, P.,

Biophysical Characterization of Complexes of DNA with Mixtures of the Neutral Lipids 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine-N-hexanoylamine or 1,2-Dioleoyl-sn-glycero-3-phosphoethanolamine-N-dodecanoylamine and 1,2-Dioleoyl-sn-glycero-3-phosphocholine in the Presence of Bivalent Metal Cations for DNA Transfection,
J. Phys. Chem. B, **115**, 10198 (2011).

625. Prévost S., Riemer S., Fischer W., Haag R., Böttcher C., Gummel J., Grillo, Appavou, M.S. and Gradzielski M.,
Colloidal Structure and Stability of DNA/Polycations Polyplexes Investigated by Small Angle Scattering,
Biomacromolecules, **12**, 4272 (2011).

626. Ramos L., Laperrousaz A., Dieudonne´ P., and Ligoure C.,
Structural Signature of a Brittle-to-Ductile Transition in Self-Assembled Networks,
Phys. Rev. Lett., **107**, 148302 (2011)

627. Reconditi M. , Brunello E. , Linari M. , Bianco P. , Narayanan T. , Panine P. , Piazzesi G. , Lombardi V. and Irving M.,
Motion of myosin head domains during activation and force development in skeletal muscle,
PNAS, **108**, 7236 (2011).

628. Rochette C.N., Rosenfeldt S., Henzler K., Polzer F., Ballauff M., Tong Q., Mecking S., Drechsler M., Narayanan T., and Harnau L.,
Annealing of single lamella nanoparticles of polyethylene,
Macromolecules, **44**, 4845 (2011).

629. Roosen-Runge F., Hennig M., Zhang F., Jacobs R.M.J., Sztucki M., Schober H., Seydel T., and Schreiber F.,
Protein self-diffusion in crowded solutions,
PNAS, **108**, 11815 (2011).

630. Ruzicka B. , Zaccarelli E. , Zulian L. , Angelini R. , Sztucki M. , Moussaïd A. , Narayanan T. and Sciortino F.,
Observation of empty liquids and equilibrium gels in a colloidal clay,
Nature Materials, **10**, 56 (2011).

631. Schroer M.A. , Markgraf J. , Wieland D.C.F. , Sahle C.J. , Moeller J. , Paulus M., Tolan M., and Winter R.,
Nonlinear pressure dependence of the interaction potential of dense protein solutions,
Phys. Rev. Lett., **106**, 178102 (2011).

632. Screen H.R.C., Seto J., Krauss S., Boesecke P., and Gupta H.S.,
Extrafibrillar diffusion and intrafibrillar swelling at the nanoscale are associated with stress relaxation in the soft collagenous matrix tissue of tendons,
Soft Matter, **7**, 11243 (2011).

633. Seddon A.M. , Lotze G. , Plivelic T.S. and Squires A.M.,
A highly oriented cubic phase formed by lipids under shear,
J. Am. Chem. Soc., **133**, 13860 (2011).

634. Shearman G.C. , Brooks N.J. , Tiddy G.J.T. , Sztucki M. , Templer R.H. , Law R.V., Ces O., and Seddon J.M.,
A lyotropic inverse ribbon phase in a branched-chain polyoxyethylene surfactant: Pressure effects,
Soft Matter, **7**, 4386 (2011).

635. Sztucki M. , Di Cola E., and Narayanan T.,
New opportunities for Anomalous Small-Angle X-ray Scattering to characterize charged soft matter systems,
J. Phys.: Conference Series, **272**, 012004 (2011).

636. Tiggelaar S.M. , Mossou E. , Callow P. , Callow S. , Teixeira S.C.M. , Mitchell E.P. , Mitraki A. and Forsyth V.T.,
Neutron fibre diffraction studies of amyloid using H2O/D2O isotopic replacement,
Acta Cryst. F, **67**, 332 (2011).

637. Tsaturyan A.K. , Bershitsky S.Y. , Koubassova N.A. , Fernández M. , Narayanan T. and Ferenczi M.A.,
The fraction of myosin motors that participate in isometric contraction of rabbit muscle fibers at near-physiological temperature,
Biophy. J., **101**, 404 (2011).

638. Tyler A.I.I. , Shearman G.C. , Brooks N.J. , Delacroix H. , Law R.V. , Templer R.H. , Ces O. and Seddon J.M.,
Hydrostatic pressure effects on a hydrated lipid inverse micellar Fd3m cubic phase,
Phys. Chem. Chem. Phys., **13**, 3033 (2011).

639. Zheng W., Mohammed A., Hines Jr. L.G., Xiao D., Martinez O.J., Bartsch R.A., Simon S.L., Russina O., Triolo A. and Quitevis E.L.,
Effect of cation symmetry on the morphology and physicochemical properties of imidazolium ionic liquids,
J. Phys. Chem. B, **115**, 6572 (2011).

640. Zhou C., Langevin D., and Guillot S.,
Internal organisation in polyelectrolytes/oppositely charged surfactants colloidal complexes anticipating precipitated nanostructures,
Eur. Phys. J. E, **34**, 70 (2011).

2010

641. Abe Y. , Gor J. , Bracewell D.G. , Perkins S.J., and Dalby P.A.,
Masking of the Fc region in human IgG4 by constrained X-ray scattering modelling: Implications for antibody function and therapy,
Biochem. J., **432**, 101 (2010).

642. Abécassis B., Testard F. , Kong Q. , François B., and Spalla O.,
Influence of monomer feeding on a fast gold nanoparticles synthesis: Time-resolved XANES and SAXS experiments,
Langmuir, **26**, 13847 (2010).

643. Antonowicz J.,
Atomic packing and phase separation in Al-rare earth metallic glasses,
J. Mater. Sci., **45**, 5040 (2010).

644. Balmer J.A. , Mykhaylyk O.O. , Fairclough J.P.A. , Ryan A.J. , Armes S.P. , Murray M.W. , Murray K.A., and Williams N.S.J.,
Unexpected facile redistribution of adsorbed silica nanoparticles between latexes,
J. Am. Chem. Soc., **132**, 2166 (2010).

645. Camenzind A. , Schweizer T. , Sztucki M., and Pratsinis S.E.,
Structure & strength of silica-PDMS nanocomposites,
Polymer, **51**, 1796 (2010).

646. Caracciolo G. , Callipo L. , Candeloro de Sanctis S. , Cavaliere C. , Pozzi D., and Laganà A.,
Surface adsorption of protein corona controls the cell internalization mechanism of DC-Chol–DOPE/DNA lipoplexes in serum,
Biochim. Biophys. Acta, **1798**, 536 (2010).

647. Caracciolo G. , Pozzi D. , Amici A., and Amenitsch H.,
Universality of DNA adsorption behavior on the cationic membranes of nanolipoplexes,
J. Phys. Chem. B, **114**, 2028 (2010).

648. Castorph S. , Riedel D. , Arleth L. , Sztucki M. , Jahn R. , Holt M., and Salditt T.,
Structure parameters of synaptic vesicles quantified by small-angle X-ray scattering,

Biophys. J., **98**, 1200 (2010).

649. Chabert F. , Tournilhac F. , Sajot N. , Tencé-Girault S., and Leibler L.,
Supramolecular polymer for enhancement of adhesion and processability of hot melt polyamides,
Int. J. Adhesion Adhesives, **30**, 696 (2010).

650. Chevigny C. , Jestin J. , Gigmes D. , Schweins R. , Di Cola E. , Dalmas F. , Bertin D., and Boué F.,
"Wet-to-dry" conformational transition of polymer layers grafted to nanoparticles in nanocomposite,
Macromolecules, **43**, 4833 (2010).

651. Clantin B., Leyrat C., Wohlkönig A., Hodak H., de Almeida Ribeiro Jr. E., Martinez N., Baud C., Smet-Nocca C., Villeret V., Jacob-Dubuisson F., and Jamin M.,
Structure and plasticity of the peptidyl-prolyl isomerase Par27 of Bordetella pertussis revealed by X-ray diffraction and small-angle X-ray scattering,
J. Struct. Biol., **169**, 253 (2010).

652. Constantin D. , Davidson P., and Chanéac C.,
Lyotropic lamellar phase doped with a nematic phase of magnetic nanorods,
Langmuir, **26**, 4586 (2010).

653. den Adel R. , Heussen P.C.M., and Bot A.,
Effect of water on self-assembled tubules in β-sitosterol + γ-oryzanol-based organogels,
J. Phys.: Conference Series, **247**, 012025 (2010).

654. Fischer B. , Autenrieth T., and Wagner J.,
Highly charged inorganic-organic colloidal core-shell particles,
Langmuir, **26**, 6201 (2010).

655. Foucault M. , Mayol K. , Receveur-Bréchot V. , Bussat M.C. , Klinguer-Hamour C. , Verrier B. , Beck A. , Haser R. , Gouet P., and Guillon C.,
UV and X-ray structural studies of a 101-residue long Tat protein from a HIV-1 primary isolate and of its mutated, detoxified, vaccine candidate,
Proteins: Structure, Function and Bioinformatics, **78**, 1441 (2010).

656. Ghosh S.K. , Castorph S. , Konovalov O. , Jahn R. , Holt M., and Salditt T.,
In vitro study of interaction of synaptic vesicles with lipid membranes,
New J. Phys., **12**, 105004 (2010).

657. Giacomelli F.C. , da Silveira N.P. , Nallet F. , Cernoch P. , Steinhart M., and Stepánek P.,

Cubic to hexagonal phase transition induced by electric field,
Macromolecules, **43**, 4261 (2010).

658. Girard E., Marchal S., Pérez J., Finet S., Kahn R., Fourme R., Marassio G., Dhaussy A.C., Prangé T., Giffard M., Dulin F., Bonneté F., Lange R., Abraini J.H., Mezouar M., and Colloc'h N.,
Structure-function perturbation and dissociation of tetrameric urate oxidase by high hydrostatic pressure,
Biophys. J., **98**, 2365 (2010).

659. Gupta H.S. , Seto J. , Krauss S. , Boesecke P., and Screen H.R.C.,
In situ multi-level analysis of viscoelastic deformation mechanisms in tendon collagen,
J. Struct. Biol., **169**, 183 (2010).

660. Hernández R., Sacristán J., Nogales A., Fernández M., Ezquerra T.A., and Mijangos C.,
Structure and viscoelastic properties of hybrid ferrogels with iron oxide nanoparticles synthesized in situ,
Soft Matter, **6**, 3910 (2010).

661. Hohner A.O. , David M.P.C., and Rädler J.O.,
Controlled solvent-exchange deposition of phospholipid membranes onto solid surfaces,
Biointerphases, **5**, 1 (2010).

662. Ianeselli L. , Zhang F. , Skoda M.W.A. , Jacobs R.M.J. , Martin R.A. , Callow S. , Prévost S., and Schreiber F.,
Protein-protein interactions in ovalbumin solutions studied by small-angle scattering: Effect of ionic strength and the chemical nature of cations,
J. Phys. Chem. B, **114**, 3776 (2010).

663. Jouault N. , Dalmas F. , Said S. , Di Cola E. , Schweins R. , Jestin J., and Boué F.,
Direct measurement of polymer chain conformation in well-controlled model nanocomposites by combining SANS and SAXS,
Macromolecules, **43**, 9881 (2010).

664. Khan S. , Gor J. , Mulloy B., and Perkins S.J.,
Semi-rigid solution structures of heparin by constrained X-ray scattering modelling: New insight into heparin-protein complexes,
J. Mol. Biol., **395**, 504 (2010).

665. Li K. , Gor J., and Perkins S.J.,

Self-association and domain rearrangements between complement C3 and C3u provide insight into the activation mechanism of C3,
Biochem. J., **431**, 63 (2010).

666. Liu J., Pancera S., Boyko V., Shukla A., Narayanan T., and Huber K.,
Evaluation of the particle growth of amorphous calcium carbonate in water by means of the porod invariant from SAXS,
Langmuir, **26**, 17405 (2010).

667. Lord T.D. , Hobbs J.K. , Terry A.E. , Kvick Å., and Hanna S.,
Variation of lattice parameters with fold state in the ultralong n-alkanes,
Macromolecules, **43**, 3365 (2010).

668. Maccarini M. , Briganti G. , Rucareanu S. , Lui X.D. , Sinibaldi R. , Sztucki M., and Lennox R.B.,
Characterization of poly(ethylene oxide)-capped gold nanoparticles in water by means of transmission electron microscopy, thermogravimetric analysis, mass density, and small angle scattering,
J. Phys. Chem. C, **114**, 6937 (2010).

669. Manna U., Richardson R.M. , Fukuda A., and Vij J.K.,
X-ray diffraction study of ferroelectric and antiferroelectric liquid crystal mixtures exhibiting de Vries SmA*-SmC* transitions,
Phys. Rev. E, **81**, 050701 (2010).

670. Merlet-Lacroix N. , Di Cola E., and Cloitre M.,
Swelling and rheology of thermoresponsive gradient copolymer micelles,
Soft Matter, **6**, 984 (2010).

671. Micetic I. , Losasso C. , Di Muro P. , Tognon G. , Benedetti P., and Beltramini M.,
Solution structures of 2x6-meric and 4x6-meric hemocyanins of crustaceans Carcinus aestuarii, Squilla mantis and Upogebia pusilla,
J. Struct. Biol., **171**, 1 (2010).

672. Michiel M., Duprat E., Skouri-Panet F., Lampi J.A., Tardieu A., Lampi K.J., and Finet S.,
Aggregation of deamidated human βB2-crystallin and incomplete rescue by α-crystallin chaperone,
Exp. Eye Res., **90**, 688 (2010).

673. Missori M. , Papi M. , Maulucci G. , Arcovito G. , Boumis G. , Bellelli A. , Amiconi G., and De Spirito M.,
Cl- and F- anions regulate the architecture of protofibrils in fibrin gel,
Eur. Biophys. J., **39**, 1001 (2010).

674. Mitchell J.B.A. , di Stasio S. , LeGarrec J.L., and Florescu-Mitchell A.I.,
Synchrotron radiation studies of additives in combustion I: Water,
Nucl. Instrum. Methods Phys. Res. B, **268**, 1486 (2010).

675. Nassif N. , Gobeaux F. , Seto J. , Belamie E. , Davidson P. , Panine P. , Mosser G., Fratzl P., and Giraud Guille M.M.,
Self-assembled collagen-apatite matrix with bone-like hierarchy,
Chem. Mater., **22**, 3307 (2010).

676. Okemefuna A.I. , Nan R. , Miller A. , Gor J., and Perkins S.J.,
Complement factor H binds at two independent sites to C-reactive protein in acute phase concentrations,
J. Biol. Chem., **285**, 1053 (2010).

677. Okemefuna A.I. , Stach L. , Rana S. , Buetas A.J. , Gor J., and Perkins S.J.,
C-reactive protein exists in an NaCl concentration-dependent pentamer-decamer equilibrium in physiological buffer,
J. Biol. Chem., **285**, 1041 (2010).

678. Perkins S.J. , Okemefuna A.I., and Nan R.,
Unravelling protein-protein interactions between complement factor H and C-reactive protein using a multidisciplinary strategy,
Biochem. Soc. Trans., **38**, 894 (2010).

679. Pouget E. , Fay N. , Dujardin E. , Jamin N. , Berthault P. , Perrin L. , Pandit A. , Rose T. , Valéry C. , Thomas D., Paternostre M., and Artzner F.,
Elucidation of the self-assembly pathway of lanreotide octapeptide into β-sheet nanotubes: Role of two stable intermediates,
J. Am. Chem. Soc., **132**, 4230 (2010).

680. Pramanik A. , Zhang F. , Schwarz H. , Schreiber F., and Braun V.,
ExbB protein in the cytoplasmic membrane of Escherichia coli forms a stable oligomer,
Biochemistry, **49**, 8721 (2010).

681. Russina O. , Gontrani L. , Fazio B. , Lombardo D. , Triolo A., and Caminiti R.,
Selected chemical-physical properties and structural heterogeneities in 1-ethyl-3-methylimidazolium alkyl-sulfate room temperature ionic liquids,
Chem. Phys. Lett., **493**, 259 (2010).

682. Ruzicka B. , Zulian L. , Zaccarelli E. , Angelini R. , Sztucki M. , Moussaïd A., and Ruocco G.,
Competing interactions in arrested states of colloidal clays,

Phys. Rev. Lett., **104,** 085701 (2010).

683. Schacher F. , Yuan J. , Schoberth H.G., and Müller A.H.E.,
Synthesis, characterization, and bulk crosslinking of polybutadiene-block-poly(2-vinyl pyridine)-block-poly(tert-butyl methacrylate) block terpolymers,
Polymer, **51**, 2021 (2010).

684. Schmidt K., Pester C.W., Schoberth H.G., Zettl H., Schindler K.A., and Böker A.,
Electric field induced gyroid-to-cylinder transitions in concentrated diblock copolymer solutions,
Macromolecules, **43**, 4268 (2010).

685. Schroer M.A., Paulus M., Jeworrek C., Krywka C., Schmacke S., Zhai Y., Wieland D.C.F.,Sahle C.J.,Chimenti M., Royer C.A.,Garcia-Moreno B., Tolan M.,and Winter R.,
High-pressure SAXS study of folded and unfolded ensembles of proteins,
Biophys. J., **99**, 3430 (2010).

686. Sztucki M. , Di Cola E., and Narayanan T.,
Instrumental developments for anomalous small-angle X-ray scattering from soft matter systems,
J. Appl. Cryst., **43**, 1479 (2010).

687. van den Pol E. , Petukhov A.V. , Thies-Weesie D.M.E., and Vroege G.J.,
Simple rectangular columnar phase of goethite nanorods and its martensitic transition to the centered rectangular columnar phase,
Langmuir, **26**, 1579 (2010).

688. Wicklein A. , Kohn P. , Ghazaryan L. , Thurn-Albrecht T., and Thelakkat M.,
Synthesis and structure elucidation of discotic liquid crystalline perylene imide benzimidazole,
Chem. Comm., **46**, 2328 (2010).

689. Yeromonahos C., Polack B., and Caton F.,
Nanostructure of the fibrin clot,
Biophys. J., **99**, 2018 (2010).

2009

690. Alaimo M.D. , Potenza M.A.C. , Manfredda M. , Geloni G. , Sztucki M. , Narayanan T. and Giglio M.,
Probing the transverse coherence of an undulator X-ray beam using brownian particles,
Phys. Rev. Lett., **103,** 194805 (2009)

691. Antonowicz, J., Kedzierski, M., Jezierska, E., Latuch, J., Yavari, A.R., Greer, L., Panine, P., and Sztucki, M.,
Small-angle X-ray scattering from phase-separating amorphous metallic alloys undergoing nanocrystallization,
J. Alloys Compounds, **483**, 116 (2009)

692. Balzano L., Rastogi S., and Peters G.W.M.,
Crystallization and Precursors during Fast Short-Term Shear,
Macromolecules, **42**, 2088 (2009).

693. Bershitsky S.Y., Ferenczi M.A., Koubassova N.A., and Tsaturyan A.K.,
Insight into the actin-myosin motor from X-ray diffraction on muscle,
Front. Biosci., **14**, 3188 (2009).

694. Bonner, A., Almogren, A., Furtado, P.B., Kerr, M.A., and Perkins, S.J.,
Location of secretory component on the Fc edge of dimeric IgA1 reveals insight into the role of secretory IgA1 in mucosal immunity,
Mucosal Immunol., **2**, 74, (2009).

695. Bonner A., Almogren A., Furtado P.B., Kerr M.A., and Perkins S.J.,
The nonplanar secretory IgA2 and near planar secretory IgA1 solution structures rationalize their different mucosal immune responses,
J. Biol. Chem., **284,** 5077 (2009).

696. Bot A. , den Adel R. , Roijers E.C. and Regkos C.,
Effect of sterol type on structure of tubules in sterol + γ-oryzanol-based organogels,
Food Biophys., **4**, 266 (2009).

697. Bot A., Veldhuizen Y.S.J., den Adel R., and Roijers E.C.,
Non-TAG structuring of edible oils and emulsions,
Food Hydrocolloids, **23,** 1184 (2009).

698. Brunello, E., L. Fusi, M. Reconditi, M. Linari, P. Bianco, P. Panine, T. Narayanan, G. Piazzesi, V. Lombardi and M. Irving,
Structural changes in myosin motors and filaments during relaxation of skeletal muscle,
J. Physiol., **587,** 4509 (2009).

699. Crassous, J. J., Rochette, C. N., Wittemann, A., Schrinner, M., and Ballauff, M.,
Quantitative Analysis of Polymer Colloids by Cryo-Transmission Electron Microscopy,
Langmuir, **25**, 7862 (2009).

700. Cunsolo A. , Formisano F. , Ferrero C. , Bencivenga F. , and Finet S.,
Pressure dependence of the large-scale structure of water,

J. Chem. Phys., **131**, 194502 (2009).

701. de Almeida Ribeiro Jr. E. , Leyrat C. , Gérard F.C.A. , Albertini A.A.V. , Falk C., Ruigrok R.W.H. and Jamin M.,
Binding of rabies virus polymerase cofactor to recombinant circular nucleoprotein-RNA complexes,
J. Mol. Biol., **394,** 558 (2009).

702. Di Cola, E., Moussaid, A., Sztucki, M., Narayanan, T., and Zaccarelli, E.,
Correlation between Structure and Rheology of Model Colloidal Glasses,
J. Chem. Phys., **131**, 144903 (2009).

703. Di Cola, E., Lefebvre, C., Deffieux, A. Narayanan, T., and Borsali, R.,
Micellar transformations of poly(styrene-b-isoprene) block copolymers in selective solvents,
Soft Matter, **5**, 1081 (2009).

704. Dieudonné, P., Man, M.W., Pichon, B.P., Vellutini, L., Bantignies, J.L., Blanc, C., Creff, G., Finet, S., Sauvajol, J.L., Bied, C., and Moreau J.J.E.,
In situ X-ray Measurements to Probe a New Solid-State Polycondensation Mechanism for the Design of Supramolecular Organo-Bridged Silsesquioxanes,
Small, **5**, 503 (2009).

705. Dingenouts N. , Klyatskaya S. , Rosenfeldt S. , Ballauff M. and Höger S.,
Temperature-induced switching between aggregated and nonaggregated states in coil-ring-coil block copolymers,
Macromolecules, **42**, 5900 (2009).

706. Francescangeli, O., Stanic, V., Torgova, S.I., Strigazzi, A., Scaramuzza, N., Ferrero, C., Dolbnya, I.P., Weiss, T.M., Berardi, R., Muccioli, L., Orlandi, S., and Zannoni, C.,
Ferroelectric response and induced biaxiality in the nematic phase of a bent-core Mesogen,
Adv. Funct. Mater., **19**, 2592 (2009).

707. Gabel, F., Jensen, M.R., Zaccaı¨, G., and Blackledge, M.,
Quantitative Modelfree Analysis of Urea Binding to Unfolded Ubiquitin
Using a Combination of Small Angle X-ray and Neutron Scattering,
J. Am. Chem. Soc., **131**, 8769 (2009).

708. Gontrani, L., Russina, O., Lo Celso, F., Caminiti, R., Annat, G., and Triolo, A.,
Liquid Structure of Trihexyltetradecylphosphonium Chloride at Ambient Temperature: An X-ray Scattering and Simulation Study,
J. Phys. Chem. B, **113**, 9235 (2009).

709. Hernandez, J. J., Garcı´a-Guti_errez, M. C., Nogales, A., Rueda, D. R., and Ezquerra, T. A.,
Shear Effect on Crystallizing Single Wall Carbon Nanotube/Poly(butylene terephthalate) Nanocomposites,
Macromolecules, **42**, 4374 (2009).

710. Jerby, E., Golts, A., Shamir, Y., Wonde, S., Mitchell, J.B.A., LeGarrec, J.-L., Narayanan, T., Sztucki, M., Ashkenazi, D., Barkay Z., and Eliaz, N.,
Nano-Particle Plasma Generated Directly from Solid Copper by Localized Microwaves,
Appl. Phys. Lett., **95**, 191501 (2009).

711. Koubassova N.A., Bershitsky S.Y., Ferenczi M.A., Panine P., Narayanan, T., and Tsaturyan A.K.,
X-ray Interferometry of the Axial Movement of Myosin Heads during Muscle Force Generation Initiated by T-Jump ,
Mol. Biol., **43**, 632 (2009).

712. Linton, P., Rennie, A.R., Zackrisson, M., and Alfredsson, V.,
In Situ Observation of the Genesis of Mesoporous Silica SBA-15: Dynamics on Length Scales from 1 nm to 1 µm,
Langmuir, **25**, 4685 (2009).

713. Lund, R., Willner, L., Monkenbusch, M., Panine, P., Narayanan, T., Colmenero, J., and Richter, D.,
Structural Observation and Kinetic Pathway in the Formation of Polymeric Micelles,
Phys. Rev. Lett., **102**, 188301 (2009).

714. Marchini C., Montani M., Amici A., Amenitsch H., Marianecci C., Pozzi D., and Caracciolo G.,
Structural stability and increase in size rationalize the efficiency of lipoplexes in serum,
Langmuir, **25,** 3013 (2009).

715. Masson S. , Kern T. , Le Gouëllec A. , Giustini C. , Simorre J.P. , Callow P. , Vernet T. , Gabel F. and Zapun A.,
Central domain of DivIB caps the C-terminal regions of the FtsL/DivIC coiled-coil rod,
J. Biol. Chem., **284**, 27687 (2009).

716. Michiel, M., Skouri-Panet, F., Duprat, E., Simon, S., Fe´rard, C., Tardieu, A., and Finet, S.,

Abnormal Assemblies and Subunit Exchange of RB-Crystallin R120 Mutants Could be Associated with Destabilization of the Dimeric Substructure,
Biochemistry, **48**, 442 (2009).

717. Mihut, A.M., Chiche, A., Drechsler, M., Schmalz, H., Di Cola, E., Krausch, G., and Ballauff, M.,
Crystallization-induced switching of the morphology of poly(ethylene oxide)-block-polybutadiene micelles,
Soft Matter, **5**, 208 (2009),

718. Mitchell, J.B.A., di Stasio, S., LeGarrec, J.-L., Florescu-Mitchell, A.I., Narayanan, T., and Sztucki, M.,
SAXS Study of Flame Soot Nanoparticle Aggregation and Restructuring,
J. Appl. Phys., **105**, 124904 (2009).

719. Motta S. , Raudino A. , Brocca P. , Corti M. , Cantú L. and Del Favero E.,
Hierarchical ordering of sugar based amphiphiles,
Mol. Cryst. Liquid Cryst., **500**, 155 (2009).

720. Muratov, A., Moussaid, A., Narayanan, T., and Kats, E.I.,
A Percus-Yevick description of short-range interacting metastable colloidal suspensions,
J. Chem. Phys., **131**, 054902 (2009).

721. Narayanan, T.,
High brilliance small-angle X-ray scattering applied to soft matter,
Current Opin. Colloid Interface Sci., **14**, 409 (2009).

722. Narayanan, T.,
Synchrotron small-angle X-ray scattering studies of colloidal suspensions,
Lecture Notes in Physics, (Non-crystalline diffraction) Ed. T. Ezquerra, **776**, p 133-156 (Springer, Berlin-Heidelberg, 2009).

723. Okemefuna A.I. , Li K. , Nan R. , Ormsby R.J. , Sadlon T. , Gordon D.L. and Perkins S.J.,
Multimeric interactions between complement factor H and its C3d ligand provide new insight on complement regulation,
J. Mol. Biol., **391**, 119 (2009).

724. Okemefuna A.I. , Nan R. , Gor J. and Perkins S.J.,
Electrostatic interactions contribute to the folded-back conformation of wild type human factor H,
J. Mol. Biol., **391**, 98 (2009).

725. Perkins S.J. , Okemefuna A.I. , Nan R. , Li K. and Bonner A.,
Constrained solution scattering modelling of human antibodies and complement proteins reveals novel biological insights,
J. Royal Soc. Interface, **6**, S679 (2009).

726. Pignon, F., Magnin, A., Piau, J.M., Belina, G., and Panine, P.,
Structure and orientation dynamics of sepiolite rigid rods - poly(ethylene oxide) suspensions under extensional and shear flow, probed by in-situ SAXS,
Rheol. Acta, **48**, 563 (2009).

727. Pisani M., Fino V., Bruni P., and Francescangeli O.,
DNA condensation into inverted hexagonal phase in aqueous dispersion of poly(ethylene)-functionalized dioleoylphosphatidylethanolamine and metal cations,
Mol. Cryst. Liquid Cryst., **500,** 132 (2009).

728. Pozzi D., Caracciolo G., Caminiti R., Candeloro de Sanctis S., Amenitsch H., Marchini C., Montani M. , Amici A.,
Toward the rational design of lipid gene vectors: Shape coupling between lipoplex and anionic cellular lipids controls the phase evolution of lipoplexes and the efficiency of DNA release,
ACS Appl. Mater. Inter., **1**, 2237 (2009).

729. Prévost S. and Gradzielski M.,
SANS investigation of the microstructures in catanionic mixtures of SDS/DTAC and the effect of various added salts,
J. Colloid Interface Sci., **337**, 472 (2009).

730. Pühse M. , Szweda R.T. , Ma Y. , Jeworrek C. , Winter R. and Zorn H.,
Marasmius scorodonius extracellular dimeric peroxidase - Exploring its temperature and pressure stability,
Biochim. Biophys. Acta, **1794**, 1091 (2009).

731. Radocaj, A., Weiss, T., Helsby, W.I., Brenner, B., and Kraft, T.,
Force-Generating Cross-Bridges during Ramp-Shaped Releases: Evidence for a New Structural State,
Biophys. J., **96**, 1430 (2009).

732. Reinhold, B., Geue, T., Huber, P., Sant, T., Pietsch, U., and Sztucki, M.,
In-situ and ex-situ SAXS investigation of colloidal sedimentation onto laterally patterned support,
Langmuir**, 25**, 814 (2009).

733. Ristori S., Di Cola E. , Lunghi C. , Richichi B. and Nativi C.,

Structural study of liposomes loaded with a GM3 lactone analogue for the targeting of tumor epitopes,
Biochim. Biophys. Acta, **1788**, 2518 (2009).

734. Rochette, C.N., Rosenfeldt, S., Heiss, A., Narayanan, T., Ballauff, M., and Jahnen-Dechent, W.,
A Shielding Topology Stabilizes the Early Stage Protein–Mineral Complexes of Fetuin-A and Calcium Phosphate: A Time-Resolved Small-Angle X-ray Study,
Chem. Bio.Chem., **10**, 735 (2009).

735. Russina O. , Triolo A. , Gontrani L. , Caminiti R. , Xiao D. , Hines Jr. L.G. , Bartsch R.A. , Quitevis E.L. , Pleckhova N. and Seddon K.R.,
Morphology and intermolecular dynamics of 1-alkyl-3-methylimidazolium bis{(trifluoromethane)sulfonyl}amide ionic liquids: Structural and dynamic evidence of nanoscale segregation,
J. Phys. Condense Matter, **21**, 424121 (2009).

736. Saveyn, P., Van der Meeren, P., Zackrisson, M., Narayanan, T., and Olsson, U.,
Subgel transition in diluted vesicular DODAB dispersions,
Soft Matter, **5**, 1735 (2009).

737. Schoberth, H.G., Schmidt, K., Schindler, K., and Boker, A.,
Shifting the order-disorder transition temperature of block copolymer systems with electric fields,
Macromolecules, **42**, 3433 (2009).

738. Shearman, G.C., Tyler, A.I.I., Brooks, N.J., Templer, R.H., Ces, O., Law, R.V., and Seddon, J.-M.,
A 3-D Hexagonal Inverse Micellar Lyotropic Phase,
J. Am. Chem. Soc., **131**, 1678 (2009).

739. Shukla, A., Narayanan, T., and Zanchi, D.,
Structure of casein micelles and their complexation with tannins,
Soft Matter, **5**, 2884 (2009).

740. Svensson A. , Bordas J. and de la Cuesta F.B.,
X-Ray diffraction from live muscle fibres,
Lecture Notes in Physics, (Non-crystalline diffraction) Ed. T. Ezquerra, **776**, p 281-314 (Springer, Berlin-Heidelberg, 2009).

741. Tartari, A., De Felici, M., Gambaccini, M., Querzoli, P., Bonifazzi, C., Ferrero, C., and Felici, R.,
Biological tissue characterisation in narrow beam x-ray scattering techniques,
X-Ray Spectrom., **38**, 195 (2009).

742. Triolo A., Russina O., Fazio B., Appetecchi G.B., Carewska M. and Passerini S.,
Nanoscale organization in piperidinium-based room temperature ionic liquids,
J. Chem. Phys., **130**, 164521 (2009).

743. Xiao, D., Hines, Jr., L.G., Li, S., Bartsch, R.A., Quitevis, E.L., Russina O., and Triolo, A.,
Effect of Cation Symmetry and Alkyl Chain Length on the Structure and Intermolecular Dynamics of 1,3-Dialkylimidazolium Bis(trifluoromethanesulfonyl) amide Ionic Liquids,
J. Phys. Chem. B, **113**, 6426 (2009).

2008

744. Abecassis, B., Testard, F., and Spalla, O.,
Gold Nanoparticle Superlattice Crystallization Probed In Situ,
Phys. Rev. Lett., **100,** 115504 (2008).

745. Antonowicz, J., Jezierska, E., Kedzierski, M., Yavari, A.R., Greer, L., Panine, P., and Sztucki, M.,
Early stages of phase separation and nanocrystallization in Al-rare earth metallic glasses studied using SAXS/WAXS and HRTEM methods,
Rev. Adv. Mater. Sci., **18**, 454 (2008).

746. Be´neut, K., Constantin, D., Davidson, P., Dessombz, A., and Chane´ac, C.,
Magnetic Nanorods Confined in a Lamellar Lyotropic Phase,
Langmuir, **24,** 8205 (2008).

747. Bonner A., Furtado P.B., Almogren A., Kerr M.A., and Perkins S.J.,
Implications of the near-planar solution structure of human myeloma dimeric IgA1 for mucosal immunity and IgA nephropathy,
J. Immunol., **180**, 1008 (2008).

748. Bot, A., den Adel, R., and Roijers, E.C.,
Fibrils of gamma-oryzanol + beta-sitosterol in edible oil organogels,
J. Am. Oil Chem. Soc., **85,** 1127 (2008).

749. Byelov, D., Panine, P., Remerie, K., Biemond, E., Alfonso, G.C.,and de Jeu, W.H.,
Crystallization under shear in isotactic polypropylene containing nucleators,
Polymer, **49**, 3076 (2008).

750. Camenzind A.,Schulz H., Teleki A., Beaucage G., Narayanan T.,and Pratsinis S.E.,

Nanostructure Evolution: From Aggregated to Spherical SiO2 Particles Made in Diffusion Flames,
Eur. J. Inorg. Chem., **2008,** 911 (2008).

751. Claessens, M.M., Semmrich, C., Ramos, L., and Bausch, A.R.,
Helical twist controls the thickness of F-actin bundles,
PNAS**, 105,** 8819 (2008).

752. Conn C.E. , Ces O. , Squires A.M. , Mulet X. , Winter R. , Finet S.M. , Templer R.H. , and Seddon J.M.,
A pressure-jump time-resolved X-ray diffraction study of cubic-cubic transition kinetics in monoolein,
Langmuir, **24,** 2331 (2008).

753. David, C., Pignon, F., Narayanan, T., Sztucki, M., Gesan-Guiziou, G. , and Magnin, A. ,
Spatial and temporal in-situ evolution of concentration profile during casein micelle ultrafiltration probed by SAXS,
Langmuir, **24**, 4523 (2008).

754. De Felici, M., Felici, R., Ferrero, C., Tartari, A., Gambaccini, M., and Finet S.,
Structural characterization of the human cerebral myelin sheath by small angle x-ray scattering,
Phys. Med. Biol., **53,** 5675 (2008).

755. Delbecq, S., Auguin, D., Yang, Y.S., Löhr, F., Arold, S., Schetters, T., Précigout, E., Gorenflot, A., and Roumestand, C.,
The solution structure of the adhesion protein Bd37 from Babesia divergens reveals structural homology with eukaryotic proteins involved in membrane trafficking,
J. Mol. Biol., **375,** 409 (2008).

756. Di Cola, E., Fleury, C., Panine, P., Leibler, L., and Cloitre, M.,
Steady shear flow alignment and rheology of lamellae forming ABC triblock copolymer solution: Orientation, defects and disorder,
Macromolecules, **41,** 3627 (2008).

757. Di Cola, E., Yakubov, G.E., and Waigh, T.A.,
Double-Globular Structure of Porcine Stomach Mucin: A Small-Angle X-ray Scattering Study,
Biomacromolecules, **9**, 3216 (2008).

758. Fdez, E., Jowitt, T.A., Wang, M.C., Rajebhosale, M., Foster, K., Bella, J., Baldock, C., Woodman, P.G., and Hilfiker, S.,

A role for soluble N-ethylmaleimide-sensitive factor attachment protein receptor complex dimerization during neurosecretion,
Mol. Biol. Cell., **19,** 3379 (2008).

759. Fernández, M., Suhonen, H., Keyriläinen, J., Bravin, A., Fiedler, S., Karjalainen-Lindsberg, M.-L., Leidenius, M., von Smitten, K., and Suortti, P.,
USAXS and SAXS from cancer-bearing breast tissue samples,
Eur. J. Radiol., **68S**, S89 (2008).

760. Furtado, P.B., Huang, C.Y., Ihyembe, D., Hammond, R.A., Marsh, H.C., and Perkins, S.J.,
The partly folded back solution structure arrangement of the 30 SCR domains in human complement receptor type 1 (CR1) permits access to its C3b and C4b ligands,
J. Mol. Biol., **375**, 102 (2008).

761. Garcı´a-Gutie´rrez, M. C., Herna´ndez, J. J., Nogales, A., Panine, P., Rueda, D. R., and Ezquerra, T. A.,
Influence of Shear on the Templated Crystallization of Poly(butylene terephthalate)/Single Wall Carbon Nanotube Nanocomposites,
Macromolecules, **41**, 844 (2008).

762. Gerelli, Y., Barbieri, S., Di Bari, M.T., Deriu, A., Cantù, L., Brocca, P., Sonvico, F., Colombo, P., May R., and Motta, S.,
Structure of self-organized multilayer nanoparticles for drug delivery,
Langmuir, **24,** 11378 (2008).

763. Gerelli, Y., Di Bari, M.T., Deriu, A., Cantù, L., Colombo, P., Como, C., Motta, S., Sonvico, F., and May, R.,
Structure and organization of phospholipid/polysaccharide nanoparticles,
J. Phys. Cond. Matter, **20,** 104211 (2008).

764. Gibon, C.M., Norvez, S., Tence´-Girault, S., and Goldbach, J.T.,
Control of Morphology and Crystallization in Polyelectrolyte/Polymer Blends,
Macromolecules, **41**, 5744 (2008).

765. Glab, J., and Wess, T.,
Changes in the molecular packing of fibrillin microfibrils during extension indicate intrafibrillar and interfibrillar reorganization in elastic response,
J. Mol. Biol., **383,** 1171 (2008).

766. Glettner, B., Liu, F., Zeng, X., Prehm, M., Baumeister, U., Walker, M., Bates, M.A., Boesecke, P., Ungar, G., and Tschierske, C.,
Liquid-Crystalline Kagome,

Angew. Chem. Int. Ed., **47**, 9063 (2008).

767. Gobeaux, F., Mosser, G., Anglo, A., Panine, P., Davidson, P., Giraud-Guille, M.-M., and Belamie, E.,
Fibrillogenesis in Dense Collagen Solutions: A Physicochemical Study,
J. Mol. Biol., **376,** 1509 (2008).

768. Graille, M., Cladière, L., Durand, D., Lecointe, F., Gadelle, D., Quevillon-Cheruel, S., Vachette, P., Forterre, P., and van Tilbeurgh, H.,
Crystal Structure of an Intact Type II DNA Topoisomerase: Insights into DNA Transfer Mechanisms,
Structure, **16**, 360 (2008).

769. Grelet, E.,
Hexagonal order in crystalline and columnar phases of hard rods,
Phys. Rev. Lett., **100,** 168301 (2008).

770. Gröhn, F., Klein K., and Brand, S.,
Facile route to supramolecular structures: Self-assembly of dendrimers and naphthalene dicarboxylic acids,
Chem. Eur. J.**, 14**, 6866 (2008).

771. Guo, H. , Narayanan, T., Sztucki, M., Schall, P., and Wegdam, G. H. ,
Reversible Phase Transitions of Colloids in a Binary Liquid Solvent,
Phys. Rev. Lett., **100**, 188303 (2008).

772. Hamley, I.W., Krysmann, M.J., Castelletto, V., and Noirez, L.,
Multiple Lyotropic Polymorphism of a Poly(ethylene glycol)-Peptide Conjugate in Aqueous Solution,
Adv. Mater., **20**, 4394 (2008).

773. Henzler, K., Rosenfeldt, S., Wittemann, A., Harnau, L., Finet, S., Narayanan, T., and Ballauff, M.,
Directed Motion of Proteins along Tethered Polyelectrolytes,
Phys. Rev. Lett., **100**, 158301 (2008).

774. Jeworrek, C., Puehse, M., and Winter, R.,
X-ray Kinematography of Phase Transformations of Three-Component Lipid Mixtures: A Time-Resolved Synchrotron X-ray Scattering Study Using the Pressure-Jump Relaxation Technique,
Langmuir, **24**, 11851 (2008).

775. Kieffer, R., Prehm, M., Glettner, B., Pelz, K., Baumeister, U., Liu, F., Zeng, X., Ungar, G., and Tschierske, C.,

X-Shaped polyphilics: Liquid crystal honeycombs with single-molecule walls,
Chem. Comm., 3861 (2008).

776. Krysmann, M.J., Castelletto, V., Kelarakis, A., Hamley, I.W., Hule, R.A., Pochan, D.J.,
Self-Assembly and Hydrogelation of an Amyloid Peptide Fragment,
Biochemistry, **47**, 4597 (2008).

777. Koubassova, N.A., Bershitsky, S.Y., Ferenczi, M.A., and Tsaturyan, A.K.,
Direct modeling of x-ray diffraction pattern from contracting skeletal muscle,
Biophys. J., **95**, 2880 (2008).

778. Li, K., Okemefuna, A.I., Gor, J., Hannan, J.P., Asokan, R., Holers, V.M., and Perkins, S.J.,
Solution structure of the complex formed between human complement C3d and full-length complement receptor type 2,
J. Mol. Biol., **384**, 137, (2008).

779. Martel, A.,Burghammer, M., Davies, R.J.,Di Cola, E.,Vendrely, C., and Riekel, C.,
Silk Fiber Assembly Studied by Synchrotron Radiation SAXS/WAXS and Raman Spectroscopy,
J. Am. Chem. Soc., **130**, 17070 (2008).

780. Martel, A., Burghammer, M., Davies, R., Di Cola, E., Panine, P., Salmon, J.-B., and Riekel, C.,
A microfluidic cell for studying the formation of regenerated silk by synchrotron radiation small- and wide-angle X-ray scattering,
Biomicrofluidics, **2**, 024104 (2008).

781. Mitchell, J.B.A., LeGarrec, J.L., Sztucki, M., Narayanan, T., Dikhtyar, V., and Jerby, E.,
Evidence for Nanoparticles in Microwave-Generated Fireballs by Synchrotron X-Ray Scattering,
Phys. Rev. Lett., **100,** 065001 (2008).

782. Nan R., Gor J., Lengyel I., Perkins S.J.,
Uncontrolled zinc- and copper-induced oligomerisation of the human complement regulator factor H and its possible implications for function and disease,
J. Mol. Biol., **384**, 1341 (2008).

783. Nan, R., Gor, J., and Perkins, S.J.,
Implications of the progressive self-association of wild-type human factor H for complement regulation and disease,
J. Mol. Biol., **375**, 891 (2008).

784. Narayanan, T.,
Synchrotron small-angle X-ray scattering,
Soft Matter: Characterization, p 899-952, Chapter 17, Vol II, Eds. R. Borsali and R. Pecora, (Springer, Berlin-Heidelberg, 2008).

785. Okemefuna, A.I., Gilbert, H.E., Griggs, K.M., Ormsby, R.J., Gordon, D.L., and Perkins S.J.,
The regulatory SCR-1/5 and cell surface-binding SCR-16/20 fragments of factor H reveal partially folded-back solution structures and different self-associative properties,
J. Mol. Biol., **375**, 80 (2008).

786. Panine, P., Di Cola, E., Sztucki, M., and Narayanan, T.,
Early Stage of Crystallization in Polypropylene,
Polymer, **49**, 676 (2008). Also editors choice Science, **319**, 549 (2008).

787. Perkins, S.J., Okemefuna, A.I., Fernando, A.N., Bonner, A., Gilbert, H.E., and Furtado, P.B.,
X-ray and neutron scattering data and their constrained molecular modeling,
Methods Cell Biol., **84,** 375 (2008).

788. Perkins S.J., and Bonner A. ,
Structure determinations of human and chimaeric antibodies by solution scattering and constrained molecular modeling,
Biochem. Soc. Tran., **36**, 37 (2008).

789. Pisani, M., Fino, V., Bruni, P., Di Cola, E., and Francescangeli, O.,
Metal cation induced cubic phase in poly(ethyleneglycol)-functionalized dioleoylphosphatidylethanolamine aqueous dispersions,
J. Phys. Chem. B, **112,** 5276 (2008).

790. Plech, A., Kotaidis, V., Siems, A., and and Sztucki, M.,
Kinetics of the x-ray induced gold nanoparticle synthesis,
Phys. Chem. Chem. Phys., **10**, 3888 (2008).

791. Poulos, A.S., Constantin, D., Davidson, P., Impe´ror, M., Pansu, B., Panine, P., Nicole, L., and Sanchez, C.,
Photochromic Hybrid Organic-Inorganic Liquid-Crystalline Materials Built from Nonionic Surfactants and Polyoxometalates: Elaboration and Structural Study,
Langmuir, **24**, 6285 (2008).

792. Prehm, M., Liu, F., Zeng, X., Ungar, G., and Tschierske, C.,

2D and 3D Ordered Columnar Liquid Crystal Phases by Bundles of Bolaamphiphiles with Swallow-Tail Side Chains,
J. Am. Chem. Soc., **130**, 14922 (2008).

793. Pühse, M., Jeworrek, C., and Winter, R.,
The temperature–pressure phase diagram of a DPPC–ergosterol fungal model membrane - a SAXS and FT-IR spectroscopy study,
Chem. Phys. Lipids, **152,** 57 (2008).

794. Ramos, L., and Ligoure, C.,
Copolymer-Induced Stabilizing Effect of Highly Swollen Hexagonal Mesophases,
Langmuir, **24**, 5221 (2008).

795. Ruzicka, B., Zulian, L., Angelini, R., Sztucki, M., Moussaïd, A., and Ruocco, G.,
Arrested state of clay-water suspensions: Gel or glass?
Phys. Rev. E, **77,** 020402(R), (2008).

796. Schmidt, V., Di Cola, E., Giacomelli, C., Brisson, A.R., Narayanan, T., and Borsali, R.,
Polyelectrolyte Behavior of Diblock Copolymer Micelles Having Phosphonic Diacid Groups at the Corona,
Macromolecules, **41**, 2195 (2008).

797. Schmidt, K., Schoberth, H.G., Ruppel, M., Zettl, H., Hänsel, H., Weiss, T., Urban, V., Krausch, G., and Böker, A.,
Reversible tuning of a block-copolymer nanostructure via electric fields,
Nature Materials, **7**, 142 (2008).

798. Shukla, A., Mylonas, E., Di Cola, E., Finet, S., Timmins, P., Narayanan, T., and Svergun, D. I.,
Absence of equilibrium cluster phase in concentrated lysozyme solutions,
PNAS, **105**, 5075 (2008).

799. Saveyn, P., Cocquyt, J., Gradzielski, M., and Van der Meeren, P.,
Osmotic effects on the enclosed volume and interlamellar spacing of multilamellar DODAC vesicles,
Colloid Surface A, **319**, 62 (2008).

800. Sztucki, M., Gorini, J., Vassalli, J.-P., Goirand, L., van Vaerenbergh, P., and Narayanan, T.,
Optimization of a Bonse-Hart instrument by suppressing surface parasitic scattering,
J. Synchrotron Rad., **15**, 341 (2008).

801. Teleki, A., Wengeler, R., Wengeler, L., Nirschl, H., and Pratsinis, S.E.,
Distinguishing between aggregates and agglomerates of flame-made TiO2 by high-pressure dispersion,
Powder Technol., **181,** 292 (2008).

802. Triolo, A., Russina, O., Fazio, B., Triolo, R., and Di Cola, E.,
Morphology of 1-alkyl-3-methylimidazolium hexafluorophosphate room temperature ionic liquids,
Chem. Phys. Lett., **457**, 362 (2008).

803. Tsang, S.C., Yu, C.H., Tang, H., He, H., Castelletto, V., Hamley, I.W., Narayanan, T., Lo, C.C.H., and Tam, K.,
Assembly of centimeter long silica coated FePt colloid crystals with tailored interstices by magnetic crystallization,
Chem. Mater., **20**, 4554 (2008).

804. Valery, C., Pouget, E., Pandit, A., Verbavatz, J.M., Bordes, L., Boisde, I., Cherif-Cheikh, R., Artzner, F., Paternostre, M.,
Molecular origin of the self-assembly of lanreotide into nanotubes: A mutational approach,
Biophys. J., **94**, 1782 (2008).

805. van den Pol, E., Thies-Weesie1, D.M.E., Petukhov, A.V., Panine, P. and Vroege1, G.J.,
Chromium-modified goethite in an external magnetic field,
J. Phys.: Condens. Matter, **20**, 404219 (2008).

806. Weiss, T.M., Narayanan, T., and Gradzielski, M.,
Dynamics of Spontaneous Vesicle Formation in Fluorocarbon and Hydrocarbon Surfactant Mixtures,
Langmuir, **24**, 3759 (2008).

807. Zanchi, D., Narayanan, T., Hagenmuller, D., Baron, A., Guyot, S., Cabane, B., and Bouhallab, S.,
Interaction of β-casein with tannins,
Europhys. Lett., **82**, 58001 (2008).

2007

808. Abecassis, B., Testard, F., Spalla, O., and Barboux, P.,
Probing in situ the Nucleation and Growth of Gold Nanoparticles by Small-Angle X-ray Scattering,
Nano Lett., **7**, 1723 (2007).

809. Antonowicz, J.,
Phase separation and nanocrystal formation in Al-based metallic glasses,
J. Alloys Comp., **434-435,** 126 (2007).

810. Artzner, F., Geiger, S., Olivier, A., Allais, C., Finet, S., and Agnely, F.,
Interactions between Poloxamers in Aqueous Solutions: Micellization and Gelation Studied by Differential Scanning Calorimetry, Small Angle X-ray Scattering, and Rheology,
Langmuir, **23**, 5085 (2007).

811. Becu, L., Anache, D., Manneville, S., and Colin, A.,
Evidence for three-dimensional unstable flows in shear-banding wormlike micelles,
Phys. Rev. E, **76**, 011503 (2007).

812. Bertin, A., Mangenot, S., Renouard, M., Durand, D., and Livolant, F.,
Structure and phase diagram of nucleosome core particles aggregated by multivalent cations,
Biophys. J., **93,** 3652 (2007).

813. Boesecke, P.,
Reduction of two-dimensional small- and wideangle X-ray scattering data,
J. Appl. Cryst., **40**, S423 (2007).

814. Bonner, A., Perrier, C., Corthésy, B., and Perkins, S.J.,
Solution Structure of Human Secretory Component and Implications for Biological Function,
J. Biol. Chem., **282**, 16969 (2007).

815. Bottier, C., Géan, J., Artzner, F., Desbat, B., Pezolet, M., Renault, A., Marion, D., and Vié, V.,
Galactosyl headgroup interactions control the molecular packing of wheat lipids in Langmuir films and in hydrated liquid-crystalline mesophases,
Biochim. Biophys. Acta - Biomembranes, **1768**, 1526 (2007).

816. Brizard, A., Aime, C., Labrot, T., Huc, I., Berthier, D., Artzner, F., Desbat, B., and Oda, R.,
Counterion, Temperature, and Time Modulation of Nanometric Chiral Ribbons from Gemini-Tartrate Amphiphiles,
J. Am. Chem. Soc., **129**, 3754 (2007).

817. Brocca, P., Cantu, L. Corti, M., Del Favero, E., and Raudino, A.,
Intermicellar Interactions May Induce Anomalous Size Behavior in Micelles Carrying

out Bulky Heads with Multiple Spatial Arrangements
Langmuir, **23**, 3067 (2007).

818. Brocca P. , Cantù L. , Corti M. , Del Favero E. , Motta S. , and Nodari M.C.,
DC13PC bilayers from anomalous swelling to main transition: An X-ray scattering investigation,
J. Colloid Interface Sci., **312,** 34 (2007).

819. Brunello, E., Reconditi, M., Elangovan, R., Linari, M., Sun, Y.-B., Narayanan, T., Panine, P., Piazzesi, G., Irving, M., and Lombardi, V.,
Skeletal muscle resists stretch by rapid actinbinding of the second myosin motor domain,
PNAS, **104**, 20114 (2007).

820. Bunjes, H., and Unruh, T.,
Characterization of lipid nanoparticles by differential scanning calorimetry, X-ray and neutron scattering,
Adv. Drug Deliv. Rev., **59**, 379 (2007).

821. Byelov, D., Panine, P., and De Jeu, W.H.,
Shear induced smectic order in isotactic polypropylene revisited,
Macromolecules, **40**, 288 (2007).

822. Cameron, G. J., Cairns, D. E., and Wess, T. J.,
The variability in type I collagen helical pitch is reflected in the D periodic fibrillar structure,
J. Mol. Biol., **372**, 1097 (2007).

823. Castelletto,V.,Parras, P., Hamley,I.W., Bäverbäck,P., Pedersen, J.S.,and Panine, P.,
Wormlike micelle formation by a pluronic block copolymer in aqueous salt solution,
Langmuir, **23**, 6896 (2007).

824. Chojnowski, G., Przenioslo, R., Sosnowska, I., Bukowski, M., Natter, H., Hempelmann, R., Fitch, A., and Urban, V.,
Microstructure Evolution and Grain Growth Kinetics in Annealed Nanocrystalline Chromium,
J. Phys. Chem. C, **111**, 5599 (2007).

825. Dessombz, A., Chiche, D., Davidson, P., Panine, P., Chanéac, C., and Jolivet, J.-P.,
Design of liquid-crystalline aqueous suspensions of rutile nanorods - Evidence of anisotropic photocatalytic properties,
J. Am. Chem. Soc., **129**, 5904 (2007).

826. Dyksterhuis, L.B., Baldock, C., Lammie, D., Wess, T.J., and Weiss, A.S.,

Domains 17–27 of tropoelastin contain key regions of contact for coacervation and contain an unusual turn-containing crosslinking domain,
Matrix Biology, **26,** 125, (2007).

827. Fernando A.N., Furtado P.B., Clark S.J., Gilbert H.E., Day A.J., Sim R.B., and Perkins S.J.,
Associative and structural properties of the region of complement factor H encompassing the Tyr402His disease-related polymorphism and its interactions with heparin,
J. Mol. Biol., **368**, 564 (2007).

828. Gobeaux, F., Belamie, E., Mosser, G., Davidson, P., Panine, P., and Giraud-Guille, M.-M.,
Cooperative ordering of collagen triple helices in the dense state,
Langmuir, **23**, 6411 (2007).

829. Hattori, Y., Ushiki, H., Courbin, L., and Panizza, P.,
Slow relaxation mode in concentrated oil-in-water microemulsions consisting of repulsive droplets,
Phys. Rev. E, **75**, 021504 (2007).

830. Joshi, J.V., Aswal, V.K., and Goyal, P.S.,
Combined SANS and SAXS studies on alkali metal dodecyl sulphate micelles,
J. Phys.: Condens. Matter, **19,** 196219 (2007).

831. Kennedy, C.J., S ˇ turcova´, A., Jarvis, M.C., and Wess, T.J.,
Hydration effects on spacing of primary-wall cellulose microfibrils: a small angle X-ray scattering study,
Cellulose, **14**, 401 (2007) .

832. Krysmann, M.J., Castelletto, V., and Hamley, I.W.,
Fibrillisation of hydrophobically modified amyloid peptide fragments in an organic solvent,
Soft Matter, **3**, 1401 (2007).

833. Marchin, S., Putaux, J.L., Pignon, F., and Léonil, J.,
Effects of the environmental factors on the casein micelle structure studied by cryo transmission electron microscopy and small-angle x-ray scattering/ultrasmall-angle x-ray scattering,
J. Chem. Phys., **126**, 045101 (2007).

834. Pichon, B. P., Wong Chi Man, M., Dieudonné, P., Bantignies, J. L., Bied, C., Sauvajol, J.L., and Moreau, J.J.,

Size and Shape Dependence of Organo-Interconnected Silsesquioxanes through Hydrolysis-Condensation Reaction Conditions: Nanotubes, Spheres and Films, Adv. Funct. Mater., **17**, 2349 (2007).

835. Pouget, E., Dujardin, E., Cavalier, A., Moreac, A., Valery, C., Marchi-Arzner, V., Weiss, T., Renault, A., Paternostre, M., and Artzner, F.,
Hierarchical architectures by synergy between dynamical template self-assembly and biomineralization,
Nature Materials, **6,** 434 (2007).

836. Rathgeber S., Lee H.I. , Matyjaszewski K., and Di Cola E.,
Rheooscillations of a bottlebrush polymer solution due to shear-induced phase transitions between a shear molten state and a line hexatic phase,
Macromolecules, **40,** 7680 (2007).

837. Ristori, S., Salvati, A., Martini, G., Spalla, O., Pietrangeli, D., Rosa, A., and Ricciardi, G.,
Synthesis and liposome insertion of a new poly (carboranylalkylthio) porphyrazine to improve potentiality in multiple-approach cancer therapy,
J. Am. Chem. Soc., **129**, 2728 (2007).

838. Ristori, S., Rossi, F., Biosa, G., Marchettini, N., Rustici, M., and Tiezzi, E.,
Interplay between the Belousov–Zhabotinsky reaction–diffusion system and biomimetic matrices,
Chem. Phys. Lett., **436**, 175 (2007).

839. Rubatat, L. and Diat, O.,
Stretching Effect on Nafion Fibrillar Nanostructure,
Macromolecules, **40**, 9455 (2007).

840. Salvati A., Ristori S., Oberdisse J., Spalla O., Ricciardi G., Pietrangeli D., Giustini M., and Martini G.,
Small angle scattering and zeta potential of liposomes loaded with octa(carboranyl)porphyrazine
J. Phys. Chem. B, **111,** 10357 (2007).

841. Schmidt, K., Schoberth, H.G., Schubert, F., Hänsel, F., Fischer, F., Weiss, T., Sevink, G.J.A., Zvelindovsky, A.V., Böker, A., and Krausch, G.,
Scaling behavior of the reorientation kinetics of block copolymers exposed to electric fields,
Soft Matter, **3**, 448 (2007).

842. Sega, M., Garberoglio, G., Brocca, B., and Cantu, L.,
Microscopic Structure of Phospholipid Bilayers: Comparison between Molecular

Dynamics Simulations and Wide-Angle X-ray Spectra,
J. Phys. Chem. B, **111**, 2484 (2007).

843. Sen, D., Spalla, O., Tache, O., Haltebourg, P., and Thill, A.,
Slow Drying of a Spray of Nanoparticles Dispersion. In Situ SAXS Investigation,
Langmuir, **23**, 4296 (2007.)

844. Shearman G.C. , Khoo B.J. , Motherwell M.L. , Brakke K.A. , Ces O. , Conn C.E., Seddon J.M., and Templer R.H.,
Calculations of and evidence for chain packing stress in inverse lyotropic bicontinuous cubic phases,
Langmuir, **23,** 7276 (2007).

845. Sonan, G.K., Receveur-Brechot, V., Duez, C., Aghajari, N., Czjzek, M., Haser, R. and Gerday, C.,
The linker region plays a key role in the adaptation to cold of the cellulase from an Antarctic bacterium,
Biochem. J., **407**, 293 (2007) .

846. Stribeck, N., Almendarez Camarillo, A., Nöchel, U., Bösecke, P., and Bayer, R.K.,
Early oriented isothermal crystallization of polyethylene studied by high-time-resolution SAXS/WAXS,
Anal. Bioanal. Chem., **387,** 649 (2007).

847. Surendran, G., Ramos, L., Pansu, B., Prouzet, E., Beaunier, P., Audonnet F., and Remita, H.,
Synthesis of porous platinum nanoballs in soft templates,
Chem. Mater., **19,** 5045 (2007).

848. Sztucki, M. and Narayanan, T.,
Development of an ultra-small-angle X-ray scattering instrument for probing the microstructure and the dynamics of soft matter,
J. Appl. Cryst., **40**, S459 (2007).

849. Sztucki, M., Narayanan, T., and Beaucage, G.,
In-situ study of aggregation of soot particles in an acetylene flame by small angle x-ray scattering,
J. Appl. Phys., **101**, 114304 (2007).

850. Triolo, A., Russina, O., Bleif, H.J., and Di Cola, E.,
Nanoscale Segregation in Room Temperature Ionic Liquids,
J. Phys. Chem. B, **111**, 4641 (2007).

851. Toma, L., Di Cola, E., Ienco, A., Legnani, L., Lunghi, C., Moneti, G., Richichi, B., Ristori, S., Dell'Atti, D., and Nativi, C.,
Synthesis, Conformational Studies, Binding Assessment and Liposome Insertion of a Thioether-Bridged Mimetic of the Antigen GM3 Ganglioside Lactone,
Chem. Bio. Chem., **8**, 1646, (2007).

852. Truffier-Boutry D., De Geyer A., Guétaz L., Diat O., and Gébel G.,
Structural study of zirconium phosphate-nafion hybrid membranes for high-temperature proton exchange membrane fuel cell applications,
Macromolecules, **40**, 8259 (2007).

853. Vrieling E.G., Sun Q., Tian M., Kooyman P.J., Gieskes W.W.C., van Santen R.A., and Sommerdijk N.A.J.M.,
Salinity-dependent diatom biosilicification implies an important role of external ionic strength,
PNAS, **104,** 10441 (2007).

854. Wengeler, R., Wolf, F., Dingenouts, N., and Nirschl, H.,
Characterizing Dispersion and Fragmentation of Fractal, Pyrogenic Silica Nanoagglomerates by Small-Angle X-ray Scattering,
Langmuir, **23**, 4148 (2007).

855. Zhou, X., Narayanan, T., and Li, Q.,
New mesogen with thermotropic cubic phase: 3,4,5-tris-(11,11,12,12,13,13,14,14,15,15,16,16,16-tridecafluoro-hexadecyloxy)-benzoic acid,
Liquid Crystals, **34**, 1243 (2007).

2006

856. Almogren, A., P. B. Furtado, Z. Sun, S.J. Perkins, and M.A. Kerr,
Purification, Properties and Extended Solution Structure of the Complex Formed between Human Immunoglobulin A1 and Human Serum Albumin by Scattering and Ultracentrifugation,
J. Mol. Biol., **356**, 413 (2006).

857. Antonowicz, J., Yavari, A. R., Botta, W. J., and Panine, P.
Phase separation and nanocrystallization in Al92Sm8 metallic glass,
Philos. Mag., **86**, 4235 (2006).

858. Baldock, C., Siegler, V., Bax, D.V., Cain, S.A., Mellody, K.T., Marson, A., Haston, J.L., Berry, R., Wang, M.C., Grossmann, J.G., Roessle, M., Kielty, C.M., and Wess, T.J.,
Nanostructure of fibrillin-1 reveals compact conformation of EGF arrays and

mechanism for extensibility,
PNAS, **103,** 11922 (2006).

859. Bauer, T., Oberdisse, J., and Ramos, L.,
Collective Rearrangement at the Onset of Flow of a Polycrystalline Hexagonal Columnar Phase,
Phys. Rev. Lett., **97**, 258303 (2006).

860. Böker A., Schmidt K., Knoll A., Zettl H., Hänsel H., Urban V., Abetz V., and Krausch G.,
The influence of incompatibility and dielectric contrast on the electric field-induced orientation of lamellar block copolymers,
Polymer, **47**, 849 (2006).

861. Botti, A., W. Pyckhout-Hintzen, D. Richter, V. Urban, and E. Straube,
A microscopic look at the reinforcement of silica-filled rubbers,
J. Chem. Phys., **124**, 174908 (2006).

862. Boulmedais, F., Bauchat, r P., Brienne, M. J., Arnal, I., Artzner, F., Gacoin, T., Dahan, M., and Marchi-Artzner, V.,
Water-Soluble Pegylated Quantum Dots: From a Composite Hexagonal Phase to Isolated Micelles,
Langmuir, **22**, 9797 (2006).

863. Brunello, E., Bianco, P., Piazzesi, G., Linari, M. Reconditi, M., Panine, P., Narayanan, T., Helsby, W., Irving, M., and Lombardi, V.,
Structural changes in the myosin filament and cross-bridges during active force development in single intact frog muscle fibres: stiffness and X-ray diffraction measurements,
J. Physiol., **577**, 971 (2006).

864. Bruni, P. , M. Pisani, A. Amici, C. Marchini, M. Montani, and O. Francescangeli,
Self-assembled ternary complexes of neutral liposomes, deoxyribonucleic acid, and bivalent metal cations. Promising vectors for gene transfer?
Appl. Phys. Lett., **88**, 073901 (2006).

865. Carreras, E.S., Piau, J.M., El Kissi, N., Pignon, F., and Panine, P.,
New capillary rheometer allowing for small-angle x-ray scattering experiments inside the die. Application to the extrusion of block copolymers, their macroscopic defects, and their structure
J. Rheol., **50**, 803 (2006).

866. Castelletto V. and Hamley I.W. ,
Capillary flow behavior of worm-like micelles studied by small-angle X-ray scattering

and small angle light scattering,
Polym. Advan. Technol., **17**,137 (2006).

867. Castelletto, V., I. W. Hamley, S. L. H. Kerstens, S. Deacon, C. D. Thomas, A. Lubbert, and H.-A. Klok,
Spontaneous condensation in DNA-polystyrene-b-poly(l-lysine) polyelectrolyte block copolymer mixtures,
Eur. Phys. J. E, **20**, 1 (2006).

868. Conn, C.E., O. Ces,X. Mulet, S. Finet, R.Winter, J. M. Seddon and Templer, R. H.,
Dynamics of Structural Transformations between Lamellar and Inverse Bicontinuous Cubic Lyotropic Phases,
Phys. Rev. Lett., **96,** 108102 (2006).

869. Gilbert, H.E., Asokan, R., Holers, V.M., and Perkins, S.J.,
The 15 SCR Flexible Extracellular Domains of Human Complement Receptor Type 2 can Mediate Multiple Ligand and Antigen Interactions,
J. Mol. Biol., **362**, 1132 (2006).

870. Gochman-Hecht H., and Bianco-Peled H.,
Structure modifications of AOT reverse micelles due to protein incorporation,
J. Colloid Interface Sci., **297**, 276 (2006).

871. Gupta, H.S., Seto, J., Wagermaier, W., Zaslansky, P., Boesecke, P., and Fratzl, P.,
Cooperative deformation of mineral and collagen in bone at the nanoscale,
PNAS, **103**, 17741 (2006).

872. Kreutzer, G., Ternat, C., Nguyen, T.Q., Plummer, C.J.G., Månson, J.A.F., Castelletto, V., Hamley, I.W., Sun, F., Sheiko, S.S., Herrmann, A., Ouali, L., Sommer, H., Fieber, W., Velazco, A.I., and Klok, H.A.,
Water-Soluble, Unimolecular Containers Based on Amphiphilic Multiarm Star Block Copolymers,
Macromolecules, **39**, 4507 (2006).

873. Lipp, J., Shuster, M., Terry, A.E., and Cohen, Y.,
Fibril Formation of 1,3:2,4-Di(3,4-dimethylbenzylidene) Sorbitol in a Polypropylene Melt,
Langmuir, **22**, 6398 (2006).

874. Maxwell, C.A., Wess, T.J., and Kennedy, C.J.,
X-ray Diffraction Study into the Effects of Liming on the Structure of Collagen
Biomacromolecules, **7**, 2321 (2006).

875. Mellody, K.T., Freeman, L.J., Baldock, C., Jowitt, T.A., Siegler, V., Raynal, B.D.E., Cain, S.A., Wess, T.J., Shuttleworth, C.A., and Kielty, C.M., *Marfan Syndrome-causing Mutations in Fibrillin-1 Result in Gross Morphological Alterations and Highlight the Structural Importance of the Second Hybrid Domain*, J. Bio. Chem., **281**, 31854 (2006).

876. Meyer, G., Perrot, C., Gebel, G., Gonon, L., Morlat, S., and Gardette, J.L., *Ex situ hydrolytic degradation of sulfonated polyimide membranes for fuel cells*, Polymer, **47**, 5003 (2006).

877. Mitchell, J. B. A., Courbe, J., Florescu-Mitchell, A. I., di Stasio, S., and Weiss, T., **Demonstration of soot particle resizing in an ethylene flame by small angle x-ray scattering**, J. Appl. Phys., **100**, 124918 (2006).

878. Narayanan, T., M. Sztucki, G. Belina, and F. Pignon, **Microstructure and rheology near an attractive colloidal glass transition**, Phys. Rev. Lett., **96,** 258301 (2006).

879. Numes C., Mahendrasingam A., and Suryanarayanan R., *Quantification of crystallinity in substantially amorphous materials by synchrotron X-ray powder diffractometry,* Pharm. Res., **23,** 2393 (2006).

880. Organ, S.J., Li, J., Terry, A.E., and Barham, P.J., *Morphology and growth of a hydroxybutyrate oligomer with 24 repeat units* Polymer, **47**, 5513 (2006).

881. Paccamiccio L, Pisani M., Spinozzi F., Ferrero C., Finet S. and Mariani P., **Pressure effects on lipidic direct phases: the dodecyl trimethyl ammonium chloride-water system,** J. Phys. Chem. B, **110**, 12410 (2006).

882. Panine, P., Finet, S., Weiss, T., and Narayanan, T., **Probing fast kinetics in complex fluids by combined rapid mixing and small-angle X-ray scattering,** Adv. Colloid Interf. Sci., **127**, 9 (2006).

883. Parrot, I.M., Laux, V., Urban, V., Haertlein, A., and Forsyth, V.T., *X-rays and neutrons for the study of DNA structure, hydration, and transitions*, Physica B, **385-386**, 848 (2006).

884. Pisani, M., P. Bruni, G. Caracciolo, R. Caminiti, and O. Francescangeli, **Structure and Phase Behavior of Self-Assembled DPPC-DNA-Metal Cation**

Complexes,
J. Phys. Chem. B, **110,** 13203 (2006).

885. Rastogi, S., Vega, J.F., van Ruth, N.J.L., and Terry, A.E.,
Non-linear changes in the specific volume of the amorphous phase of poly(4-methyl-1-pentene); Kauzmann curves, inverse melting, fragility,
Polymer, **47,** 5555 (2006).

886. Rathgeber, S., Pakula, T., Wilk, A., Matyjaszewski, K., Lee, H., and Beers, K.L.,
Bottle-brush macromolecules in solution: Comparison between results obtained from scattering experiments and computer simulations,
Polymer, **47**, 7318 (2006).

887. Santanach Carreras, E., Piau, J.-M., El Kissi, N., Pignon, F., and Panine, P.,
New capillary rheometer allowing for small-angle x-ray scattering experiments inside the die. Application to the extrusion of block copolymers, their macroscopic defects, and their structure,
J. Rheol., **50**, 803 (2006).

888. Seddon, J.M., Squires, A.M., Conn, C.E., Ces, O., Heron, A.J., Mulet, A., Sherman, G.C., and Templer, R.H.,
Pressure-jump X-ray studies of liquid crystal transitions in lipids,
Phil. Trans. R. Soc. A, **364**, 2635 (2006).

889. Skouri-Panet F., Cheruel S., Michiel M., Tardieu A. and Finet S.,
sHSPs under temperature and pressure: the opposite behaviour of lens alpha-crystallins and HSP26,
Biochim. Biophys. Acta, **1764**, 372 (2006).

890. Soni, S.S., G. Brotons , M. Bellour, T. Narayanan, and A. Gibaud,
Quantitative SAXS Analysis of the P123/Water/Ethanol- Ternary Phase Diagram,
J. Phys. Chem. B, **110**, 15157 (2006).

891. Spiro, J.G., Yang, J., Zhang, J.X., Winnik, M.A., Rharbi, Y., Vavasour, J.D., Whitmore, M.D., and Jerome, R.,
Experimental and Theoretical Investigation of the Lamellar Structure of a Styrene-Butyl Methacrylate Diblock Copolymer by Fluorescence Resonance Energy Transfer, Small-Angle X-ray Scattering, and Self-Consistent-Field Simulations,
Macromolecules, **39**, 7055 (2006).

892. Sztucki, M., Narayanan, T., Belina, G.,Moussaïd, A., Pignon, F., and Hoekstra, H.,
Kinetic arrest and glass-glass transitions in short-ranged attractive colloids,
Phys. Rev. E, **74**, 051504 (2006).

893. Terech, P., Jean, B. and Ne, F.,
Hexagonally Ordered Ammonium Lithocholate Self-Assembled Nanotubes with Highly Monodisperse Sections,
Adv. Mater., **18**, 1571 (2006).

894. Tsarkova, L., Knoll, A., Krausch, G., and Magerle, R.,
Substrate-Induced Phase Transitions in Thin Films of Cylinder-Forming Diblock Copolymer Melts,
Macromolecules, **39**, 3608 (2006).

895. Vinken, E., A.E. Terry, S. Hoffmann, B. Vanhaecht, C.E. Koning, and S. Rastogi,
Influence of hydrogen bonding on the conformational changes, the Brill transition, and lamellae thickening in (co)polyamides,
Macromolecules, **39**, 2546 (2006).

896. Wagner, J., Fischer, B., Autenrieth, T., and Hempelmann, R.,
Structure and dynamics of charged magnetic colloids,
J. Phys. Cond. Matter, **18**, S2697 (2006).

897. Wagner J., Fischer B. and Autenrieth T.,
Field induced anisotropy of charged magnetic colloids: A rescaled mean spherical approximation study,
J. Chem. Phys., **124**, 114901 (2006).

898. Wengeler, R., A. Teleki, M. Vetter, S. E. Pratsinis, and H. Nirschl,
High-Pressure Liquid Dispersion and Fragmentation of Flame-Made Silica Agglomerates,
Langmuir, **22**, 4928 (2006).

899. Zhu, X., Beginn, U., Mo¨ ller, M., Gearba, R.I., Anokhin, D.V., and Ivanov, D.A.,
Self-Organization of Polybases Neutralized with Mesogenic Wedge-Shaped Sulfonic Acid Molecules: An Approach toward Supramolecular Cylinders,
J. Am. Chem. Soc., **128,** 16928 (2006).

2005

900. Aramayo, R., C. Merigoux, E. Larquet, P. Bron, J. Perez, C. Dumas, P. Vachette, and N. Boisset,
Divalent ion-dependent swelling of Tomato Bushy Stunt Virus: A multi-approach study,
Biochim. Biophys. Acta, **1724**, 345 (2005).

901. Bernado´, P. , L. Blanchard, P. Timmins, D. Marion, R. W. H. Ruigrok, and M. Blackledge,

A structural model for unfolded proteins from residual dipolar couplings and small-angle X-ray scattering,
PNAS, **102**, 17002 (2005).

902. Bourhis, J. M., Receveur-Bréchot, V., Oglesbee, M., Zhang, X., Buccellato, M., Darbon, H., Canard B., Finet S., and Longhi, S.,
The intrinsically disordered C-terminal domain of the measles virus nucleoprotein interacts with the C-terminal domain of the phosphoprotein via two distinct sites and remains predominantly unfolded,
Protein Sci., **14**, 1975 (2005).

903. Brocca, P., L. Cantu, E. Del Favero, M. Dubois, S. Motta, S. Tunesi, and Th. Zemb,
Headgroup and chain melting transition in dispersed bilayers of GM3 ganglioside,
Colloid Surface A, **259**, 125 (2005).

904. Brotons, G., M. Dubois, L. Belloni, I. Grillo, T. Narayanan, and T. Zemb,
The role of counterions on the elasticity of highly charged lamellar phases: A small-angle x-ray and neutron-scattering determination,
J. Chem. Phys., **123**, 024704 (2005).

905. Bruni, P., M. Pisani, M. Iacussi, and O. Francescangeli,
Fe2+ promoted peroxidation of 1,2- diacyl-sn-glycero-3-phoshocholine liposomes in the presence of calf thymus DNA,
Org. Biomol. Chem., **3**, 3524 (2005).

906. Corstjens, C.S.J., G.W.H. Hoehne, and S. Rastogi,
Inverse melting in syndiotactic polystyrene,
Macromolecules, **38**, 1814 (2005).

907. De Felici, M., Tartari, A., Taibi, A., Gambaccini, M., Felici, R., Bravin, A., Ferrero, C., and Finet, S.,
Effects induced by the fine structure of biological tissues on microbeam dose deposition: a numerical study,
Nucl. Instrum. Methods Phys. Res. A, **548**, 59, (2005).

908. De Rouchey, J., R.R. Netz, and J.O. Rädler,
Structural investigations of DNA-polycation complexes,
Eur. Phys. J. E, **16**, 17 (2005).

909. Etrillard, J., M. Axelos, I. Cantat, F. Artzner, A. Renault, T. Weiss, R. Delannay and F. Boué,
In-situ investigations on organic foam films using neutron and synchrotron radiations,
Langmuir, **21**, 2229 (2005).

910. Ferenczi MA, Bershitsky SY, Koubassova N, Siththanandan V, Helsby WI, Panine P, Roessle M, Narayanan T, and Tsaturyan AK,
The roll and lock mechanism of force generation in muscle,
Structure, **13**, 131, (2005).

911. Fernandez M., Keyrilainen J., Serimaa R., Torkkeli M., Karjalainen-Lindsberg M.L., Leidenius M., von Smitten K., Tenhunen M., Fiedler S., Bravin A., Weiss T.M., and Suortti P.,
Human breast cancer in vitro: matching histo-pathology with small-angle x-ray scattering and diffraction enhanced x-ray imaging,
Phys. Med. Biol., **50**, 2991, (2005).

912. Gilbert, H. E., Eaton, J. T., Hannan, J. P., Holers, V. M., and Perkins, S. J.
Solution structure of the complex between CR2 SCR 1-2 and C3d of human complement: an X-ray scattering and sedimentation modelling study,
J. Mol. Biol., **346**, 859 (2005).

913. Gochman-Hecht, H., and Bianco-Peled, H.,
Structure of AOT reverse micelles under shear,
J. Colloid Interf. Sci., **288**, 230 (2005).

914. Gordeliy, V. I., Cherezov, V., and Teixeira, J.,
Strength of thermal undulations of phospholipid membranes,
Phys. Rev. E, **72**, 061913 (2005).

915. Hammel M, Fierobe HP, Czjzek M, Finet S, Kurkal V, Smith JC, Bayer EA, and Receveur Brechot V.,
Structural Basis of cellulosome efficiency explored by Small Angle X-ray Scattering,
J. Biol. Chem., **280**, 38562 (2005).

916. Helfer, E., P.Panine, M.F.Carlier, and P.Davidson,
The interplay between viscoelastic and thermodynamic properties determines the birefringence of F-actin gels,
Biophys. J., **89**, 543 (2005).

917. Hoekstra H., Mewis J., Narayanan T., and Vermant J.,
Multi Length Scale Analysis of the Microstructure in Sticky Sphere Dispersions during Shear Flow,
Langmuir, **21**, 11017, (2005).

918. Hu, Y., Sun, Z., Eaton, J. T., Bouloux, P. M. G. and Perkins, S. J.
Extended domain solution structure of the extracellular matrix protein anosmin-1 by X-

ray scattering, analytical ultracentrifugation and constrained modeling,
J. Mol. Biol., **350**, 553 (2005).

919. Jean B., Oss-Ronen L., Terech P., and Talmon Y.,
Monodisperse bile-salt nanotubes in water: Kinetics of formation,
Adv. Mater., **17**, 728 (2005).

920. King WA, Stone DB, Timmins PA, Narayanan T, von Brasch AAM, Mendelson RA, and Curmi PMG,
Solution Structure of the Chicken Skeletal Muscle Troponin Complex via Small-Angle Neutron and X-ray Scattering,
J. Mol. Biol., **345**, 797, (2005).

921. Lemaire B.J., Davidson P., Ferre J., Jamet J.P., Petermann D., Panine P., Dozov I., Stoenescu D., and Jolivet J.P.,
The complex phase behaviour of suspensions of goethite (alpha-FeOOH) nanorods in a magnetic field,
Faraday discuss., **128**, 271 (2005).

922. Li, L., L. Harnau, S. Rosenfeldt, and M. Ballauff,
Effective interaction of charged platelets in aqueous solution: Investigations of colloid laponite suspensions by static light scattering and small-angle x-ray scattering,
Phys. Rev. E, **72**, 051504 (2005).

923. Linari, M., E. Brunello, M. Reconditi, Y.-B. Sun, P. Panine, T. Narayanan, G. Piazzesi, V. Lombardi, and M. Irving,
The structural basis of the increase in isometric force production with temperature in frog skeletal muscle,
J. Physiol., **567**, 459 (2005).

924. Ludwigs S., Schmidt K., Stafford C.M., Amis E.J., Fasolka M.J., Karim A., Magerle R., and Krausch G.,
Combinatorial mapping of the phase behavior of ABC triblock terpolymers in thin films: Experiments,
Macromolecules, **38**, 1850 (2005).

925. Mahendrasingam, A., D.J. Blundell, A.K. Wright, M. Parton, T. Narayanan and W. Fuller,
Time resolved study of oriented crystallisation of poly(lactic acid) during rapid tensile deformation,
Polymer, **46**, 6009 (2005).

926. Mahendrasingam, A., D.J. Blundell, C. Martin, V. Urban, T. Narayanan and W. Fuller,
Time resolved WAXS study of the role of mesophase in oriented crystallisation of poly(ethylene terephthalate-co-isophthalate) copolymers,
Polymer, **46**, 6044 (2005).

927. Maxwell, C. A., Bell, N., Kennedy, C. J., and Wess, T. J.,
X-ray diffraction and FT-IR study of caprine and ovine hide,
Pap. Conserv., **29**, 55 (2005).

928. Nunes, C., A. Mahendrasingam, and R. Suryanarayanan**,**
Quantification of Crystallinity in Substantially Amorphous Materials by Synchrotron X-ray Powder Diffractometry,
Pharm. Res., **22**, 1942, (2005).

929. Parrot, I.M., V. Urban, K.H. Gardner, and V.T. Forsyth,
Combined X-ray and neutron fibre diffraction studies of biological and synthetic polymers,
Nucl. Instrum. Methods Phys. Res. B, **238**, 7 (2005).

930. Pisani, M., P. Bruni, Conti, E. Giorgini and O. Francescangeli,
Self-Assembled liposome-DNA-metal complexes related to DNA delivery,
Mol. Cryst. Liquid Cryst., **434**, 643 (2005).

931. Reconditi, M., M. Linari, L. Lucii, A. Stewart, Y-B. Sun, T. Narayanan, T. Irving, G. Piazzesi, M. Irving, and V. Lombardi,
Structure-Function Relation of the Myosin Motor in Striated Muscle,
Ann. N.Y. Acad. Sci., **1047**, 232 (2005).

932. Schmidt, K., A. Böker, H. Zettl, F. Schubert, H. Hänsel, F. Fischer, T. M. Weiss, V. Abetz, A. V. Zvelindovsky, G. J. A. Sevink, and G. Krausch,
Influence of Initial Order on the Microscopic Mechanism of Electric Field Induced Alignment of Block Copolymer Microdomains,
Langmuir, **21**, 11974 (2005).

933. Squire J.M., Knupp C., Roessle M., Al-Khayat H.A., Irving T.C., Eakins F., Mok N.S., Harford J.J., and Reedy M.K.,
X-ray diffraction studies of striated muscles,
Adv. Exp. Med. Bio., **565**, 45 (2005).

934. Squires, A.M., R. H. Templer, J. M. Seddon, J. Woenkhaus, R. Winter, T. Narayanan and S. Finet,
Kinetics and mechanism of the interconversion of inverse bicontinuous cubic

mesophases,
Phys. Rev. E, **72**, 011502 (2005).

935. Stribeck, N., Bayer, R., Bösecke, P., and Camarillo, A. A.,
Visualisation of the structure transfer between an oriented polymer melt and the semi-crystalline state,
Polymer, **46**, 2579 (2005).

936. Suhonen H., Fernández M., Serimaa R., and Suortti P.,
Simulation of small-angle X-ray scattering from collagen fibrils and comparison with experimental patterns,
Phys. Med. Biol., **50**, 5401 (2005).

937. Sun, Q., Magusin P.C.M.M., Mezari B., Panine P., van Santen R.A., and Sommerdijk N.A.J.M.,
The formation of gigantic hollow silica spheres from an EO76–PO29–EO76/butanol/ethanol/H2O quaternary system,
J. Mat. Chem., **15**, 256 (2005).

938. Sun, Z.,Almogren, A.,Furtado, P.B.,Chowdhury, B., Kerr, M. A. and Perkins, S. J.,
Semi-extended solution structure of human myeloma immunoglobulin D determined by constrained X-ray scattering,
J. Mol. Biol., **353**, 155 (2005).

939. Tartari, A., Taibi, A., Bonifazzi, C., Gambaccini, M., and De Felici, M.,
Updating of x-ray coherent scattering cross-sections and their effects in microbeam and material analysis applications,
X-Ray Spectrom, **34**, 421 (2005).

940. Tsaturyan, A.K., N. Koubassova, M.A. Ferenczi, T. Narayanan, M. Roessle, and S. Y. Bershitsky,
Strong Binding of Myosin Heads Stretches and Twists the Actin Helix,
Biophys. J., **88**, 1902 (2005).

941. Versmold H., Kubetzki H., Musa S., and Urban V.,
Small-angle scattering without sample rotation,
Colloid Polym. Sci., **283**, 612 (2005).

942. Violot, S., Aghajari, N., Czjzek, M., Feller, G., Sonan, G.K., Gouet, P., Gerday, C., Haser R., and Receveur-Bre´chot, V.,
Structure of a Full Length Psychrophilic Cellulase from Pseudoalteromonas haloplanktis revealed by X-ray Diffraction and Small Angle X-ray Scattering,
J. Mol. Biol., **348**, 1211 (2005).

943. von Ossowski, I., Eaton, J. T., Czjzek, M., Perkins, S. J., Frandsen, T. P., Schülein, M., Panine, P., Henrissat, B. and Receveur-Bréchot, V.,
Protein disorder: conformational distribution of the flexible linker in a chimeric double cellulose,
Biophys. J., **88**, 2823 (2005).

944. Wagner, J., Autenrieth, T., Robert, A., Härtl, W., and Grübel, G.,
Structure and dynamics of complex liquids with magnetic dipole–dipole interactions by means of static and dynamic X-ray scattering.,
J. Magnetism Magnetic Mater., **289**, 54 (2005).

945. Weiss, T. M., T. Narayanan, C. Wolf, M. Gradzielski, P. Panine, S. Finet, and W. I. Helsby,
Dynamics of the Self-Assembly of Unilamellar Vesicles,
Phys. Rev. Lett., **94**, 038303 (2005).

946. Yamaguchi, D., M. Cloitre, P. Panine, and L. Leibler,
Phase Behavior and Viscoelastic Properties of Thermoplastic Elastomer Gels Based on ABC Triblock Copolymers,
Macromolecules, **38**, 7798 (2005).

2004

947. Ausili P., Pisani M., Finet S., Amenitsch H., Ferrero C., and Mariani P.,
Pressure effects on columnar lyotropics: anisotropic compressibilities in guanosine mono-phosphate four-stranded helices,
J. Phys. Chem. B, **108**, 1783, (2004).

948. Beaucage G., Kammler H.K., Mueller R., Strobel R., Agashe N., Pratsinis S.E., and Narayanan T.,
Probing the dynamics of nano-particle growth in a flame using synchrotron radiation,
Nature Materials, **3**, 370, (2004).

949. Bolze J., Pontoni D., Ballauff M., Narayanan T., and Cölfen H.,
Time-Resolved SAXS Study on the Effect of a Double Hydrophilic Block-Copolymer on the Formation of CaCO3 from a Supersaturated Salt Solution,
J. Colloid Interf. Sci., **277**, 84, (2004).

950. Bourhis J.M., Johansson K., Receveur-Bréchot V., Oldfield C.J., Dunker K.A., Canard B., and Longhi S.,
The C-terminal domain of measles virus nucleoprotein belongs to the class of intrinsically disordered proteins that fold upon binding to their physiological partner,
Virus Res., **99**, 157, (2004).

951. Caracciolo, G.,Sadun,C., Caminiti, R.,Pisani, M., Bruni, P. and Francescangeli, O.,
Structure of solid-supported lipid–DNA–metal complexes investigated by energy dispersive X-ray diffraction,
Chem. Phys. Lett., **397**, 138 (2004).

952. Casselyn, M., Tardieu, A., Delacroix, H., and Finet, S.,
Birth and growth kinetics of brome mosaic virus microcrystals,
Biophys. J., **87**, 2737 (2004).

953. Dingenouts, N., Patel, M., Rosenfeldt, S., Pontoni, D., Narayanan, T., and Ballauff, M.,
Counterion distribution in a spherical polyelectrolyte brush,
Macromolecules, **37**, 8152, (2004).

954. Fernández M., Keyriläinen J., Karjalainen-Lindsberg M.L., Leidenius M., von Smitten K., Fiedler S., and Suortti P.,
Human breast tissue characterisation with small-angle X-ray scattering,
Spectroscopy, **18**, 167, (2004).

955. Francescangeli O., Pisani M., Stanic V., Bruni P., and Weiss T.M.,
Evidence of an inverted hexagonal phase in self-assembled phospholipid-DNA-metal complexes,
Europhys. Lett., **67**, 669, (2004).

956. Furtado P.B., Whitty P.W., Robertson A., Eaton J.T., Almogren A., Kerr M.A., Woof J.M., and Perkins S.J.,
Solution structure determination of monomeric human IgA2 by X-ray and neutron scattering, analytical ultracentrifugation and constrained modelling: A comparison with monomeric human IgA1,
J. Mol. Biol., **338**, 921, (2004).

957. Gonzalez-Alvarez, A., Arellano, M., Diat, O., Legrand, J.-F., Piau, J.-M.,
Elongational properties and crystallization of poly (isobutylene) melts probed by synchrotron radiation,
Rev. Mex. de Fis., 50, 506 (2004).

958. Gradzielski, M., Grillo, I. and Narayanan, T.,
Dynamics of structural transitions in amphiphilic systems monitored by scattering techniques,
Prog. Colloid Polym. Sci., **129**, 32 (2004).

959. Hammel M., Fierobe H.P., Czjzek M., Finet S., and Receveur-Bréchot V.,

Structural insights into the mechanism of formation of cellulosomes probed by small angle X-ray scattering,
J. Biol. Chem., **279**, 55985, (2004).

960. Hammel M., Walther M., Prassl R., and Kuhn H.,
Structural flexibility of the N-terminal beta-barrel domain of 15-lipoxygenase-1 probed by small angle X-ray scattering. Functional consequences for activity regulation and membrane binding,
J. Mol. Biol., **343**, 917 (2004).

961. Kalnin D., Kalnin, D., Quennesson, P., Artzner, F., Schafer, O., Narayanan, T., and Ollivon, M.,
Monitoring both fat crystallization and self-assembly of sodium caseinate in model emulsions using synchrotron X-ray diffraction,
Prog. Colloid Polym. Sci., **126**, 139, (2004).

962. Knoll, A., Magerle, R., and Krausch, G.,
Phase behavior in thin films of cylinder-forming ABA block copolymers: Experiments,
J. Chem. Phys., **120**, 1105 (2004).

963. Lecommandoux S., Borsali R., Schappacher M., Deffieux A., Narayanan T., and Rochas C.,
Microphase separation of linear and cyclic block copolymers poly(styrene-b-isoprene): SAXS experiments,
Macromolecules, **37**, 1843, (2004).

964. Lemaire B.J., Davidson P., Ferré J., Jamet J.P., Petermann D., Panine P., Dozov I., and Jolivet J.P.,
Physical properties of aqueous suspensions of goethite (alpha-FeOOH) nanorods, Part I : In the Isotropic phase,
Eur. Phys. J. E, **13**, 291, (2004).

965. Lemaire B.J., Davidson P., Petermann D., Panine P., Dozov I., Stoenescu D., and Jolivet J.P.,
Physical properties of aqueous suspensions of goethite (alpha-FeOOH) nanorods. Part II : In the Nematic phase,
Eur. Phys. J. E, **13**, 309, (2004).

966. Lemaire, B. J., P. Davidson, P. Panine, and J. P. Jolivet,
Magnetic-Field-Induced Nematic-Columnar Phase Transition in Aqueous Suspensions of Goethite (alpha-FeOOH) Nanorods,
Phys. Rev. Lett., **93**, 267801 (2004).

967. Li J., Organ S.J., Hobbs J.K., Terry A.E., Barham P.J., and Seebach D.,
Crystallization of hydroxybutyrate oligomers: 1. morphology and folding,
Polymer **45**, 8913 (2004).

968. Li, J., Organ, S. J., Terry, A. E., Hobbs, J. K., and Barham, P. J.,
Crystallization of hydroxybutyrate oligomers. Part 3. Unfolding transitions followed in real time using SAXS and WAXS,
Polymer, **45**, 8937 (2004).

969. Lombardi V., Piazzesi G., Reconditi M., Linari M., Lucii L., Stewart A., Sun Y.B., Boesecke P., Narayanan T., Irving T., and Irving M.,
X-ray diffraction studies of the contractile mechanism in single muscle fibres,
Philos. Trans. R. Soc. (Lond.) B, **359**, 1883, (2004).

970. Mahendrasingam, A., Blundell, D. J., Wright, A. K., Urban, V., Narayanan, T., and Fuller, W.
Time resolved WAXS/SAXS observations of crystallisation in oriented melts of Ultra High Molecular Weight Polyethylene,
Polymer, **45**, 5641, (2004).

971. McLoughlin D., Impéror-Clerc M., and Langevin D.,
A new cubic phase containing DNA and a surfactant,
Chem. Phys. Chem., **5**, 1619 (2004).

972. McManus, J.J., Ra¨ dler, J.O., and Dawson, K.A.,
Observation of a Rectangular Columnar Phase in a DNA-Calcium-Zwitterionic Lipid Complex,
J. Am. Chem. Soc., **126**, 15966 (2004).

973. Micetic I. and Salvato B.,
Model building of a molluscan hemocyan,
Micron, **35**, 17, (2004).

974. Patel M., Rosenfeldt S., Ballauff M., Dingenouts N., Pontoni D.,and Narayanan T.,
Analysis of the correlation of counterions to rod-like macroions by anomalous small-angle X-ray scattering,
Phys. Chem. Chem. Phys., **6**, 2962, (2004).

975. Pignon F., Belina G., Narayanan T., Paubel X., Magnin A., and Gésan-Guiziou G.,
Structure and rheological behavior of casein micelles during ultrafiltration process,
J. Chem. Phys., **121**, 8138, (2004).

976. Pitard B., Bello-Roufaï M., Lambert O., Richard P., Desigaux L., Fernandes S., Lanctin C., Pollard H., Zeghal M., Rescan P.Y., and Escande D.,
Negatively charged self-assembling DNA/poloxamine nanospheres for in vivo gene transfer,
Nucleic Acids Res., **32**, e159 (2004).

977. Pontoni, D., Narayanan T., and Rennie A.R.,
Nucleation and growth kinetics of colloidal silica,
Prog. Colloid Polym. Sci., **123**, 227 (2004).

978. Ramos, L. and Molino, F.,
Shear Melting of a Hexagonal Columnar Crystal by Proliferation of Dislocations,
Phys. Rev. Lett., **92**, 018301 (2004).

979. Ramos, L.,
Time-resolved synchrotron X-ray scattering of the crystallization of a soft hexagonal columnar crystal,
Langmuir, **20**, 2215 (2004).

980. Rathgeber S., Pakula T. and Urban V.,
Structure of star-burst dendrimers: A,
J. Chem. Phys., **121**, 3840, (2004).

981. Reconditi M., Linari M., Lucii L., Stewart A., Sun Y.B., Boesecke P., Narayanan T., Fischetti R.F., Irving T., Piazzesi G., Irving M., and Lombardi V.,
The myosin motor in muscle generates a smaller and slower working stroke at higher load,
Nature, **428**, 578, (2004).

982. Roessle M., Panine P., Urban V.S., and Riekel C.,
Structural evolution of regenerated silk fibroin under shear: Combined wide- and small-angle X-ray scattering experiments using synchrotron radiation,
Biopolymers, **74**, 316, (2004).

983. Rubatat, L., G. Gebel and O. Diat,
Fibrillar structure of Nafion: Matching Fourier and real space studies of Nafion Films and Solutions,
Macromolecules, **37**, 7772, (2004).

984. Squire, J.M., Roessle, M. and Knupp, C.,
New X-ray diffraction observations on the structure of the vertebrate muscle A-band with possible interpretations based on C-protein (MyBP-C), titin, nebulin and troponin,
J. Mol. Biol., **343**, 1345, (2004).

985. Sun, Z., Reid, K. B., and Perkins, S. J.,
The dimeric and trimeric solution structures of the multidomain complement protein properdin by X-ray scattering, analytical ultracentrifugation and constrained modelling,
J. Mol. Biol., **343**, 1327 (2004).

986. Valery, C., Artzner, F., Robert, B., Gulick, T., Keller, G., Grabielle-Madelmont, C., Torres, M.-L., Cherif-Cheikh, R., and Paternostre, M.,
Self-association process of a peptide in solution: from beta-sheet filaments to large embedded nanotubes,
Biophys. J., **86**, 2484, (2004).

987. van der Heijden, P. , L. Rubatat and O. Diat,
Orientation on drawn Nafion at molecular and mesoscopic scales,
Macromolecules, **37**, 5327 (2004).

988. Van Der Heijden, P., Bouzenad, F., and Diat, O.,
Birefringence study of drawn Nafion films,
J. Polym. Sci. B, **42**, 2857 (2004).

989. Van Ruth N.J.L. and Rastogi S.,
Nonlinear changes in specific volume: A route to resolve an entropy crisis,
Macromolecules, **37**, 8191, (2004).

990. Vrieling, E.G. ,Beelen T.P.M., Sun Q., Hazelaar S., van Santen R.A., and Gieskes W.W.C.,
Ultrasmall, small, and wide angle X-ray scattering analysis of diatom biosilica: interspecific differences in fractal properties,
J. Mater. Chem., **14**, 1970, (2004).

991. Wagner, J.,
Small-angle scattering from spherical core–shell particles: an analytical scattering function for particles with Schulz–Flory size distribution,
J. Appl. Cryst., **37**, 750 (2004).

992. Zhang W., Hirshberg M., McLaughlin S.H., Lazar G.A., Grossmann J.G., Nielsen P.R., Sobott F., Robinson C.V., Jackson S.E., and Laue E.D.,
Biochemical and Structural Studies of the Interaction of Cdc37 with Hsp90,
J. Mol. Biol., **340**, 891, (2004).

2003

993. Armengaud J., Fernandez B., Chaumont V., Rollin-Genetet F., Finet S., Marchetti C., Myllykallio H., Vidaud C., Pellequer J.L., Gribaldo S., Forterre P., and Gans P., *Identification, Purification, and Characterization of an Eukaryotic-like Phosphopantetheine Adenylyltransferase (Coenzyme A Biosynthetic Pathway) in the Hyperthermophilic Archaeon Pyrococcus abyssi.*
J. Biol. Chem., **278**, 31078 (2003).

994. Belina G.,Urban V.,Straube E., Pyckhout-Hintzen W.,Klueppel M.,and Heinrich G. **Microscopic Deformation of Filler Particles in Rubber Under Uniaxial Deformation**,
Macromol. Symp., **200**, 121 (2003).

995. Boeker A., Elbs H., Haensel H., Knoll A., Ludwigs S., Zettl H., Zvelindovsky A.V., Sevink G.J.A., Urban V., Abetz V., Mueller A.H.E., and Krausch G., **Electric field induced alignment of concentrated block copolymer solutions,**
Macromolecules, **36**, 8078 (2003).

996. Borsali R., Minatti, E., Putaux, J. L., Schappacher, M., Deffieux, A., Viville, P., Lazzaroni, R., and Narayanan, T.,
From "Sunflower-like" Assemblies towards Giant Wormlike Micelles,
Langmuir, **19**, 6 (2003).

997. Botti A., Pyckhout-Hintzen W., Richter D., Urban V., Straube E., and Kohlbrecher J.,
Silica filled elastomers: Polymer chain and filler characterization,
Polymer, **44**, 7505 (2003).

998. Camerel F., Gabriel J.C.P., Batail P., Panine P., and Davidson P., **Combined SAXS-Rheology studies of liquid crystalline colloidal suspension of mineral moieties**,
Langmuir, **19**, 10028 (2003).

999. Dellisanti C., Spinelli S., Cambillau C., Findlay J.B.C., Zagalsky P.F., Finet S., and Receveur-Bréchot V.,
Quaternary structure of alpha-crustacyanin from lobster as seen by small angle X-ray scattering,
FEBS Lett., **544**, 189 (2003).

1000. Dingenouts N., Merkle R., Guo X., Narayanan T., Goerigk G., and Ballauff M., **Use of anomalous small-angle scattering for the investigation of highly charged colloids,**
J. Appl. Cryst., **36**, 578 (2003).

1001. Finet S., Vivarès, D., Bonneté, F., and Tardieu, A.,
Controlling biomolecular crystallization by understanding the distinct effects of PEGs and salt on solubility.
Methods Enzymol., **368**, 105 (2003).

1002. Gradzielski M.,
Vesicles and vesicle gels-structure and dynamics of formation,
J. Phys., Condens. Matter, **15**, R655 (2003).

1003. Haston J.L., Engelsen S.B., Rössle M., Clarckson J., Blanch E.W., Baldock C., Kielty C.M., and Wess T.J.,
Raman microscopy and X-ray diffraction, a combined study of fibrillin rich microfibrillar elasticity,
J. Biol. Chem., **278**, 41189 (2003).

1004. Houssin, C.J.Y., Kirschhock, C. E., Magusin, P. C., Mojet, B. L., Grobet, P. J., Jacobs, P. A., Martens, J.A., and van Santen, R. A.,
Combined in situ ^{29}Si NMR and small-angle X-ray scattering study of precursors in MFI zeolite formation from silicic acid in TPAOH solutions,
Phys. Chem. Chem. Phys., **5**, 3518 (2003).

1005. Kosonen, H., Valkama, S., Ruokolainen, J., Torkkeli, M., Serimaa, R., Ten Brinke, G., and Ikkala, O.,
One-dimensional optical reflectors based on self-organization of polymeric comb-shaped supramolecules,
Eur Phys. J. E, **10** 69 (2003).

1006. Longhi S., Receveur-Bréchot V., Karlin D., Johansson K., Darbon H., Bhella D., Yeo R., Finet S., and Canard B.,
The C-terminal domain of the measles virus nucleoprotein is intrinsically disordered and folds upon binding to the C-terminal moiety of the phosphoprotein,
J. Biol. Chem., **278**, 18638 (2003).

1007. Ludwigs S., Böker A., Abetz V., Mueller A.H.E., and Krausch G.,
Phase behavior of linear PS-PVP-PBM,
Polymer, **44**, 6815 (2003).

1008. Mahendrasingam A., Blundell, D. J., Wright, A. K., Urban, V., Narayanan, T., and Fuller, W.,
Observation of structure development during crystallization of oriented poly(ethylene terephthalate),
Polymer, **44**, 5915 (2003).

1009. Mangenot S., Leforestier A., Durand D., and Livolant F.,
Phase diagram of nucleosome core particles,
J. Mol. Biol., **333**, 907 (2003).

1010. Mangenot S., Leforestier A., Durand D., and Livolant F.,
X-Ray Diffraction Characterization of the Dense Phases Formed by Nucleosome Core Particles,
Biophys. J., **84**, 3123 (2003).

1011. McGillivray D.J., Thomas R.K., Rennie A.R., Penfold J., and Sivia D.S.,
Ordered structures of dichain cationic surfactants at interfaces,
Langmuir, **19**, 7719 (2003).

1012. McManus, J.J., Radler, J.O. and Dawson, K.A.,
Does Calcium turn a zwitterionic lipid cationic?
J.Phys.Chem. B, **107**, 9869 (2003).

1013. McManus, J.J., Radler, J.O. and Dawson, K.A.,
Phase behavior of DPPC in a DNA-Calcium-zwitterionic lipid complex studied by small-angle X-ray scattering,
Langmuir, **19**, 9630 (2003).

1014. Ne F., Testard F., Zemb T., and Grillo I.,
How does ZrO2/surfactant mesophase nucleate?
Langmuir, **19**, 8503 (2003).

1015. Panine P. Urban V., Boesecke P., and Narayanan T.,
Combined small- and wide-angle X-ray scattering study of early stages of polymer crystallization,
J. Appl. Cryst., **36**, 991 (2003).

1016. Panine, P. Gradzielski, M. and Narayanan T.,
Combined Rheometry and Small-Angle X-Ray Scattering,
Rev. Sci. Instrum., **74**, 2451 (2003).

1017. Panizza P., Courbin L., Cristobal G., Rouch J., and Narayanan T.,
Formation of structural steady states in lamellar/sponge phase-separating fluids under shear flow,
Physica A, **322**, 38 (2003).

1018. Pavlov G., Finet S., Tatarenko K., Korneeva E., and Ebel C.,
Conformation of heparin studied with macromolecular hydrodynamic methods and X-ray scattering,
Eur. Biophys. J., **32**, 437 (2003).

1019. Pignon F., Alemdar A., Magnin A., and Narayanan T.,
Small-angle X-ray scattering studies of Fe-Montmorillonite deposits during ultrafiltration in a magnetic field,
Langmuir, **19**, 8638 (2003).

1020. Pisani, M., Narayanan T., Di Gregorio G.M., Ferrero C., Finet S., and Mariani P.,
Compressing inverse lyotropic systems: structural behavior and energetics of dioleoyl phosphatidyl ethanolamine,
Phys. Rev. E, **68**, 021924 (2003).

1021. Pontoni D. and Narayanan T.,
Ultra-small-angle X-ray scattering studies of attractive colloidal glass transition,
J. Appl. Cryst., **36**, 787 (2003).

1022. Pontoni D., Bolze J., Dingenouts N., Narayanan T., and Ballauff M.,
Crystallization of calcium carbonate observed in-situ by combined small- and wide- angle scattering,
J. Phys. Chem. B, **107**, 5123 (2003).

1023. Pontoni D., Narayanan T., Petit J.M., Grübel G., and Beysens D.,
Microstructure and dynamics near an attractive colloidal glass transition,
Phys. Rev. Lett., **90**, 188301 (2003).

1024. Pontoni D., Finet S., Narayanan T. , and Rennie A.R.,
Interactions and kinetic arrest in an adhesive hard-sphere colloidal system,
J. Chem. Phys., **119**, 6157 (2003).

1025. Reconditi M., Koubassova N., Linari M., Dobbie I., Narayanan T., Diat O., Piazzesi G., Lombardi V., and Irving M.,
The conformation of myosin head domains in rigor muscle determined by X-ray interference,
Biophys. J., **85**, 1098 (2003).

1026. Sherratt M.J., Baldock C., Haston J.L., Holmes D.F., Jones C.J.P., Shuttleworth C.A., Wess T.J., and Kielty C.M.,
Fibrillin microfibrils are stiff reinforcing fibres in complaint tissues,
J. Mol. Biol., 332, 183 (2003).

1027. Urban V., Panine P., Ponchut C., Boesecke P., and Narayanan T.,
Two-dimensional camera for millisecond range time-resolved small- and wide-angle X-ray scattering,
J. Appl. Cryst., **36**, 809 (2003).

1028. Valery C., Paternostre M., Robert B., Gulik-Krzywicki T., Narayanan T., Dedieu J.C., Keller G., Torres M.L., Cherif-Cheikh R., Calvo P., and Artzner F.,
Biomimetic organization: octapeptide self-assembly into nanotubes of viral capside like dimension,
PNAS, **100**, 10258 (2003).

1029. Valkama, S., Ruotsalainen, T., Kosonen, H., Ruokolainen, J., Torkkeli, M., Serimaa, R., Ten Brinke, G., and Ikkala, O.,
Amphiphiles coordinated to block copolymers as a template for mesoporous materials,
Macromolecules, **36**, 3986 (2003).

1030. Vrieling, E. G., Hazelaar, S., Gieskes, W. W., Sun, Q., Beelen, T. P., and Santen, R. A. V.,
Silicon biomineralisation: towards mimicking biogenic silica formation in diatoms,
In *Silicon Biomineralization* (pp. 301-334), Springer, Berlin, Heidelberg (2003).

1031. Weber V., Narayanan T., Mendes E., and Schosseler F.,
Micellar growth in salt-free aqueous solutions of a Gemini cationic surfactant: Evidence for a multimodal population of aggregates,
Langmuir, **19**, 992 (2003).

2002

1032. Beekmans L.G.M., Van Der Meer D.W. and Vancso G.J.,
Crystal melting and its kinetics on poly(ethylene oxide),
Polymer, **43**,1887 (2002).

1033. Blundell D.J., Eeckhaut, G., Fuller, W., Mahendrasingam, A., and Martin, C.,
Real time SAXS/stress-strain studies of thermoplastic polyurethanes at large strains,
Polymer, **43**, 5197 (2002).

1034. Boeker A., Elbs, H., Hänsel, H., Knoll, A., Ludwigs, S., Zettl, H., Urban, V., Abetz, V., Müller, A. H. E., and Krausch, G.,
Microscopic mechanisms of electric-field-induced alignment of block copolymer microdomains,
Phys. Rev. Lett., **89**, 135502 (2002); ibid **90**, 049602 (2003).

1035. Bolze J. Peng B., Dingenouts N., Panine P., Narayanan T., and Ballauff M.,
Formation and growth of amorphous colloidal CaCO3 precursor particles as detected by time-resolved SAXS,
Langmuir, **18**, 8364 (2002).

1036. Botti A., Pyckhout-Hintzen W., Urban V., Kohlbrecher J., Richter D., and Straube E.,
Silica-filled elastomers: Polymer chain and filler characterization by a SANS-SAXS approach,
Appl. Phys. A, **74**, S513 (2002).

1037. Camerel F., Gabriel J.C.P., Batail P., Davidson P., Lemaire B., Schmutz M., Gulik-Krzywicki T., and Bourgaux C.,
Original single walled nanotubules based on weakly interacting covalent mineral polymers, 1oo[Nb2PS10-] in N-methylformamide,
Nano Lett., **2**, 403 (2002).

1038. Casselyn M., Finet S., Tardieu A., and Delacroix H.,
Time-resolved scattering investigations of brome mosaic virus microcrystals appearance,
Acta Cryst. D, **58**, 1568 (2002).

1039. Cherezov V., Qiu H., Pector V., Vandenbranden M., Ruysschaert J.M., and Caffrey M.,
Biophysical and transfection studies of the diC14-amidine/DNA complex,
Biophys. J., **82**, 3105 (2002).

1040. Cherezov V., Riedl K.M. and Caffrey M.,
Too hot to handle? Synchrotron X-ray damage of lipid membranes and mesophases,
J. Synchrotron Rad., **9**, 333 (2002).

1041. Fernandez M., Keyriläinen J., Serimaa R., Torkkeli M., Karjalainen-Lindsberg M.L., Tenhunen M., Thomlinson W., Urban V., and Suortti P.,
Small-angle X-ray scattering studies of human breast tissue samples,
Phys. Med. Biol., **47**, 577 (2002).

1042. Finet S. and Narayanan T.,
La diffusion des rayons X aux petits angles: application à la biologie,
Bull. Soc. Fr. Phys., **133**, 8 (2002).

1043. Hoekstra H., Vermant J., Mewis J., and Narayanan T.,
Rheology and structure of suspensions in liquid crystalline hydroxypropylcellulose solutions,
Langmuir, **18**, 5695 (2002).

1044. Lemaire B.J., Davidson, P., Ferré, J., Jamet, J. P., Panine, P., Dozov, I., and Jolivet, J. P.,
Outstanding magnetic properties of nematic suspensions of geothite (alpha-

FeOOH) nanorods,
Phys. Rev. Lett., **88**, 125507 (2002).

1045. Lemaire B.J., Panine P., Gabriel J.C.P., and Davidson P.,
The measurement by SAXS of the nematic order parameter of laponite gels,
Europhys. Lett., **59**, 55 (2002).

1046. Minatti E., Borsali R., Schappacher M., Deffieux A., Soldi V., Narayanan T., and Putaux J.L.,
Effect of cyclization of polystyrene/polyisoprene block copolymers on their micellar morphology,
Macromol. Rapid Commun., **23**, 978 (2002).

1047. Panine P. Narayanan T., Vermant J., and Mewis J.,
Structure and rheology during shear-induced crystallization of a latex suspension,
Phys. Rev. E, **66**, 022401 (2002).

1048. Piazzesi G., Reconditi, M., Linari, M., Lucii, L., Sun, Y. B., Narayanan, T., Boesecke, P., Lombardi, V., and Irving, M.,
Mechanism of force generation by myosin heads in skeletal muscle,
Nature, **415**, 659 (2002).

1049. Pontoni D., Narayanan T. and Rennie A.R.,
High-dynamic range SAXS data acquisition with an X-ray image intensifier,
J. Appl. Cryst., **35**, 207, (2002).

1050. Pontoni D., Narayanan T. and Rennie A.R.,
Time-resolved SAXS study of nucleation and growth of silica colloids,
Langmuir, **18**, 56 (2002).

1051. Pott T. and Roux D.
DNA intercalation in neutral multilamellar membranes,
FEBS Lett., **511**, 150 (2002).

1052. Rastogi A., Rastogi S., and Hobbs, J.,
Time-resolved WAXD and SAXS investigations on butyl branched alkane at elevated pressure,
Macromolecules, **35**, 5861 (2002).

1053. Rathgeber S., Monkenbusch M., Kreitschmann M., Urban V., and Brûlet A.,
Dynamics of star-burst dendrimers in solution in relation to their structural properties,
J. Chem. Phys., **117**, 4047 (2002).

1054. Receveur V., Czjzek M., Schuelein M., Panine P., and Henrissat B.,
Dimension, shape and conformational flexibility of a two-domain modular cellulase in solution probed by small angle X-ray scattering,
J. Biol. Chem., **277**, 40887 (2002).

1055. Rubatat L., Rollet, A. L., Diat, O., and Gebel, G.,
Caractérisation de la structure des membranes ionomères par diffusion de rayons X aux petits angles,
J. Phys. IV, **12**, Pr6-197 (2002).

1056. Rubatat L., Rollet, A. L., Gebel, G., and Diat, O.,
Evidence of elongated polymeric aggregates in Nafion,
Macromolecules, **35**, 4050 (2002).

1057. Schmoelzer S., Graebner D., Gradzielski M., and Narayanan T.,
Millisecond-range time-resolved small-angle X-ray scattering studies of micellar transformations,
Phys. Rev. Lett., **88**, 258301 (2002).

1058. Squires A.M., Templer R.H., Seddon J.M., Woenckhaus J., Winter R., Finet S., and Theyencheri N.,
Kinetics and mechanism of the lamellar to gyroid inverse bicontinuous cubic phase transition,
Langmuir, **18**, 7384 (2002).

1059. Stepanek P., Nallet, F., Diat, O., Almdal, K., and Panine, P.,
Undulation properties of the lamellar phase of a diblock copolymer: SAXS experiments,
Macromolecules, **35**, 7287 (2002).

1060. Sun Q., Beelen T.P.M., van Santen R.A., Hazelaar S., Vrieling E.G., and Gieskes W.W.C.,
PEG-mediated silica pore formation monitored in situ by USAXS and SAXS: Systems with properties resembling diatomaceous silica,
J. Phys. Chem. B, **106**, 11539 (2002).

1061. Terech P. and Talmon Y.,
Aqueous suspensions of steroid nanotubules: Structural and rheological characterizations,
Langmuir, **18**, 7240 (2002).

1062. Unruh T., Westesen, K., Bösecke, P., Lindner, P., and Koch, M. H. J.,
Self-assembly of triglyceride nanocrystals in suspension,
Langmuir, **18**, 1796 (2002).

1063. Urban V., Botti A., Pyckhout-Hintzen W., Richter D., and Straube E.,
Composites reinforcement by rods: A SAS study,
Appl. Phys. A, **74**, S510 (2002).

1064. Versmold, H., Musa, S., and Bierbaum, A.,
Concentrated colloidal dispersions: On the relation of rheology with small angle x-ray and neutron scattering,
J. Chem. Phys., **116**, 2658 (2002).

1065. Vrieling E.G., Beelen T.P.M., van Santen R.A., and Gieskes W.W.C.,
Mesophases of (Bio)polymer-silica particles inspire a model for silica biomineralization in diatoms,
Angew. Chem., **41**, 1543 (2002).

2001

1066. Bernocco S., Finet S., Ebel C., Eichenberger D., Mazzorana M., Farjanel J., and Hulmes D.J.S.,
Biophysical characterization of the C-propeptide trimer from human procollagen III reveals a tri-lobed structure,
J. Biol. Chem., **276**, 48930 (2001).

1067. Castro-Roman, F., and Ligoure, C.,
Lateral stretching of fluid membranes by grafted polymer brushes,
Europhys. Lett., **53**, 483 (2001).

1068. Cherezov V., Fersi H. and Caffrey M.,
Crystallization screens: Compatibility with the lipidic cubic phase for in meso crystallization of membrane protein,
Biophys. J., **81**, 225 (2001).

1069. Cinelli S., Spinozzi S., Itri R., Finet S., Carsughi F., Onori G., and Mariani P.,
Structural characterisation of the pH-denatured states of ferricytochrome-c by synchrotron small angle X-ray scattering,
Biophys. J., **81**, 3522 (2001).

1070. Crawshaw J., Sferrazza M., and Donald A.M.,
Small angle X-ray scattering investigation of deformation in PMMA toughened with core-shell particles,
Plast. Rubber and Compos., **30**, 68 (2001).

1071. Cristobal G., Rouch J., Panizza P., and Narayanan T.,
Ribbon phase in a phase-separated lyotropic lamellar-sponge mixture under shear

flow,
Phys. Rev. E, **64**, 011505 (2001).

1072. Dhez O., Nallet F. and Diat O.,
Influence of screw dislocations on the orientation of a sheared lamellar phase,
Europhys. Lett., **55**, 821 (2001).

1073. Gabriel J.C.P,. Camerel F., Lemaire B.J., Desvaux H., Davidson P., and Batail P.,
Swollen liquid-crystalline lamellar phase based on extended solid-like sheets,
Nature, **413**, 504 (2001).

1074. Jansen B.J.P., Rastogi S., Meijer H.E.H., and Lemstra P.J.,
Rubber-modified glassy amorphous polymers prepared via chemically induced phase separation: 2. Mode of microscopic deformation studied by in-situ small-angle X-ray scattering during tensile deformation,
Macromolecules, **34**, 4007 (2001).

1075. Juanhuix J., Bordas J., Campmany J., Svensson A., Bassford M.L., and Narayanan T.,
Axial disposition of myosin heads in isometrically contracting muscles,
Biophys. J., **80**, 1429 (2001).

1076. Lal J., Abernathy D., Auvray L., Diat O., and Grübel G.,
Dynamics and correlations in magnetic colloidal systems,
Eur. Phys. J. E, **4**, 263 (2001).

1077. Marlière C., Despetis F.,Etienne P.,Woignier T., Dieudonné P.,and Phalippou J.,
Very large-scale structures in sintered silica aerogels as evidenced by atomic force microscopy and ultra-small angle X-ray scattering experiments,
J. Non-Cryst. Solids, **285**, 148 (2001)

1078. Marliere C., Despetis F., Etienne P., Woignier T.,Dieudonné P., and Phalippou J.,
Two fractal structures in aerogel,
J. Non-Cryst. Solids, **285**, 175 (2001).

1079. Megens M. and Vos W.L.,
Particle Excursions in Colloidal Crystals,
Phys. Rev. Lett., **86**, 4855 (2001).

1080. Narayanan T., Diat O. and Boesecke P.,
SAXS and USAXS on the high brilliance beamline at the ESRF,
Nucl. Instrum. Methods Phys. Res. A, **467-468**, 1005 (2001).

1081. Seelenmeyer S., Seelenmeyer, S., Deike, I., Rosenfeldt, S., Norhausen, C., Dingenouts, N., Ballauff, M., Narayanan, T, and Lindner, P.,
Small-angle X-ray and neutron scattering studies of the volume phase transition in thermosensitive core-shell colloids,
J. Chem. Phys., **114**, 10471 (2001).

1082. Sferrazza M., Crawshaw J., Donald A.M., and Narayanan T.,
Evidence of highly localized failure within core-shell toughening particles from in-situ small-angle scattering,
Macromolecules, **34**, 6708 (2001).

1083. Venning J.D., Rodrigues D.J., Weston C.J., Cotton N.P.J., Quirk P.G., Errington N., Finet S., White S.A., and Jackson J.B.,
The heterotrimer of the membrane-peripheral components of transhydrogenase and the alternating-site mechanism of proton translocation,
J. Biol. Chem., **276**, 30678 (2001).

1084. Versmold H., Musa, S., Dux, C., Lindner, P., and Urban, V.,
Shear-induced structure in concentrated dispersions: Small angle synchrotron X-ray and neutron scattering,
Langmuir, **17**, 6812 (2001).

1085. Wetzer B., Byk G., Frederic M.,Airiau M.,Blanche F., Pitard B. and Scherman D.,
Reducible cationic lipids for gene transfer,
Biochem. J., **356**, 747-756 (2001).

1086. Wijnhoven J.E.G.J., Bechger L. and Vos W.L.,
Fabrication and Characterization of Large Macroporous Photonic Crystals in Titania,
Chem. Mater., **13**, 4486 (2001).

2000

1087. Berghausen J., Zipfel J., Diat O., Narayanan T., and Richtering W.,
Lamellar phases under shear: Variation of the layer orientation across the couette gap,
Phys. Chem. Chem. Phys., **2**, 3623 (2000).

1088. Cherezov V., Cheng A., Petit J.M., Diat O., and Caffrey M.,
Biophysics and synchrotron radiation where the marriage fails. X-Ray damage of lipid membranes and mesophases,
Cell. Mol. Biol., **46**, 1133 (2000).

1089. De Moor P.P.E.A., Beelen T.P.M., van Santen R.A., Beck L.W., and Davis M.E.,
Si-MFI crystallization using a "dimer" and "trimer" of TPA studied with small-angle X-

ray scattering,
J. Phys. Chem. B, **104**, 7600 (2000).

1090. Dhez O., König, S., Roux, D., Nallet, F., and Diat, O.,
Lamellar-to-nematic phase transition in a lipid-surfactant mixture,
Eur. Phys. J. E, **3**, 377 (2000).

1091. Eiser E., Molino F., Porte G., and Diat O.,
Nonhomogeneous textures and banded flow in a soft cubic phase under shear,
Phys. Rev. E, **61**, 6759 (2000).

1092. Eiser E., Molino F., and Porte G.,
Correlation between the viscoelastic properties of a soft crystal and its microstructure,
Eur. Phys. J. E, **2**, 39 (2000).

1093. Hodder B., Sambles J.R., Jenkins S. and Richardson R.M.,
Combined X-Ray and Fully Leaky Guided Mode Studies of the Smectic Layer and Optic Tensor Configuration in a Ferroelectric Liquid Crystal Cell,
Phys. Rev. Lett., **85**, 3181 (2000).

1094. Linari M., Piazzesi G., Dobbie I., Koubassova N., Reconditi M., Narayanan T., Diat O., Irving M., and Lombardi V.,
Interference fine structure and sarcomere length dependence of the axial X-ray pattern from active single muscle fibres,
PNAS, **97**, 7226 (2000).

1095. Loos J., Tian M., Rastogi S., and Lemstra P.J.,
Investigation on chain mobility in solid state polymer systems,
J. Mat. Sci., **35**, 5147 (2000).

1096. Orgel J.P., Wess T.J. and Miller A.,
The in situ conformation and axial location of the intermolecular cross-linked non-helical telopeptides of type I collagen,
Structure, **8**, 137 (2000).

1097. Patkowski A., Thurn-Albrecht T., Banachowicz E., Steffen W., Boesecke P., Narayanan T., and Fischer E.W.,
Long-range density fluctuations in orthoterphenyl as studied by means of ultra small-angle X-ray scattering,
Phys. Rev., E, **61**, 6909 (2000).

1098. Pelletier O., Bourgaux C., Diat O., Davidson P., and Livage J.,
A small-angle X-ray scattering study of the isotropic and nematic phases of V_2O_5

suspensions,
Eur. Phys. J. E, **2**, 191 (2000).

1099. Ponomarenko S.A., Boiko, N. I., Shibaev, V. P., Richardson, R. M., Whitehouse, I. J., Rebrov, E. A., and Muzafarov, A. M.,
Carbosilane Liquid Crystalline Dendrimers: From molecular Architecture to Supramolecular Nanostructures,
Macromolecules, **33**, 5549 (2000).

1100. Ramos L., Molino F., and Porte G.,
Shear melting in lyotropic hexagonal phases,
Langmuir, **16**, 5846 (2000).

1101. Roessle M., Manakova, E., Lauer, I., Nawroth, T., Holzinger, J., Narayanan, T., Bernstorff, S., Amenitsch, H., and Heumann, H.,
Time-resolved small angle scattering: Kinetic and structural data from proteins in solution,
J. Appl. Cryst., **33**, 548 (2000).

1102. Seelenmeyer S., Deike, I., Dingenouts, N., Rosenfeldt, S., Norhausen, C., Ballauff, M., and Narayanan, T.,
Analysis of the volume transition in thermosensitive core-shell particles by synchrotron small-angle X-ray scattering,
J. Appl. Cryst., **33**, 574 (2000).

1103. Singh, M. A., Hutanu, R., Shea, M., Fraser, R., Plivelic, T., and Handa, Y. P.,
Characterization of the effects of compressed gas annealing on semicrystalline polymers,
J. Polym. Sci. B, **38**, 2457 (2000).

1104. Villetti M., Borsali R., Diat O., Soldi V., and Fukada K.,
SAXS from polyelectrolyte solutions under shear: Xanthan and Na-hyaluronate examples,
Macromolecules, **33**, 9418 (2000).

1105. Woenckhaus J., Kohling R., Winter R., Thiyagarajan P., and Finet S.,
High pressure-jump apparatus for kinetic studies of protein folding reactions using the small-angle synchrotron X-ray scattering technique,
Rev. Sci. Instrum., **71**, 3895 (2000).

1999

1106. Bordas J., Svensson A., Rothery M., Lowy J., Diakun G.P., and Boesecke P.,
Extensibility and symmetry of actin filaments in contracting muscles,

Biophys. J., **77**, 3197 (1999).

1107. Bouglet G., and Ligoure C.,
Polymer-mediated interactions of fluid membranes in a lyotropic lamellar phase: A small angle X-ray and neutron scattering study,
Eur. Phys. J. B, **9**, 137 (1999)

1108. Brown A.B.D., Ferrero C., Narayanan T., and Rennie A.R.,
Phase separation and structure in a concentrated colloidal dispersion of uniform plates,
Eur. Phys. J. B, **11**, 481 (1999).

1109. de Moor P.P.E.A., Beelen T.P.M., van Santen R.A.,
In situ observation of nucleation and crystal growth in zeolite synthesis. A small-angle X-ray scattering investigation on Si-TPA-MFI,
J. Phys. Chem. B, **103**, 1639 (1999).

1110. de Moor P.P.E.A., Beelen T.P.M., van Santen R.A.,
SAXS and USAXS investigation on nanometer-scaled precursors in organic-mediated zeolite crystallization from gelating systems,
Chem. Mater., **11**, 36 (1999).

1111. Ebeling T., Paillet M., Borsali R., Diat O., Dufresne A., Cavaillé J.Y., Chanzy H.,
Shear-induced orientation phenomena in suspensions of cellulose microcrystals, revealed by small angle X-ray scattering,
Langmuir, **15**, 6123 (1999).

1112. Jansen B.J.P., Rastogi S., Meijer H.E.H., and Lemstra P.J.,
Rubber-modified glassy amorphous polymers prepared via chemically induced phase separation. 4. Comparison of properties of semi- and full-IPNs, and copolymers of acrylate - aliphatic epoxy systems,
Macromolecules, **32**, 6290 (1999).

1113. Müller H., Salhi F., Divisia-Blohorn B., Genoud F., Narayanan T., Lorenzen M., and Ferrero C.,
Poly[(dibenzylidene)tetrathiapentalene] - the first linearly extended TTF polymer,
Chem. Commun., 1407 (1999).

1114. Pelletier O., Bourgaux C., Diat O., Davidson P., and Livage J.,
A biaxial nematic gel phase in aqueous vanadium pentoxide suspensions,
Eur. Phys. J. B, **12**, 541 (1999).

1115. Piazzesi G., Reconditi M., Dobbie I., Linari M., Boesecke P., Diat O., Irving M., and Lombardi V.,

Changes in conformation of myosin heads during the development of isometric contraction and rapid shortening in single frog muscle fibres,
J. Physiol., **514**, 305 (1999).

1116. Pople J.A., Hamley I.W., Fairclough J.P.A., Ryan A.J., Hill G., and Price C.,
A shear induced transition of lamellar alignment in a concentrated diblock copolymer solution,
Polymer, **40**, 5709 (1999).

1117. Terech P., and Coutin A.,
Structure of a transient networkmade up of entangled monomolecular organometallic wires in organic liquids. effects of an endcapping molecule,
Langmuir, **15**, 5513 (1999).

1118. Thijssen M.S., Sprik R., Wijnhoven J.E.G.J., Megens M., Narayanan T., Lagendijk A., and Vos W.L.,
Inhibited Light Propogation and Broadband Reflection in Photonic Air-Sphere Crystals,
Phys. Rev. Lett., **83**, 2730 (1999).

1119. Thurn-Albrecht, T., Meier, G., Müller-Buschbaum, P., Patkowski, A., Steffen, W., Grübel, G., Abernathy, D. L., Diat, O., Winter, M., Koch, M. G., and Reetz, M. T.,
Structure and dynamics of surfactant-stabilized aggregates of palladium nanoparticles under dilute and semidilute conditions: Static and dynamic x-ray scattering,
Phys. Rev. E, **59**, 642 (1999).

1120. Wright D.M., Duance V.C., Wess T.J., Kielty C.M., and Purslow P.P.,
The supramolecular organisation of fibrillin-rich microfibrils determines the mechanical properties of bovine zonular filaments,
J. Exp. Bio., **202** 3011 (1999).

1998

1121. Diat O., Narayanan T., Abernathy D.L., and Gruebel G.,
Small angle x-ray scattering from dynamic processes,
Curr. Opin. Colloid Interface Sci., **3**, 305 (1998).

1122. Hamley I.W., Pople J.A. and Diat O.,
A thermally induced transition from a body-centred to a face-centred cubic lattice in a diblock copolymer gel,
Colloid Polym. Sci., **276**, 446 (1998).

1123. Hamley I.W., Pople J.A., Booth C., Derici L., Impéror-Clerc M., Davidson P.,

Shear-induced orientation of the body-centered-cubic phase in a diblock copolymer gel,
Phys. Rev. E, 58, 7620 (1998)

1124. Hamley I.W., Pople J.A., Fairclough J.P.A., Terrill N.J., Ryan A.J., Booth C., Yu G.E., Diat O., Almdal K., Mortesen K., Vigild M.,
Effect of shear on cubic phases in gels of a diblock copolymer,
J. Chem. Phys., **108**, 6929 (1998).

1125. He C., Donald A.M., Butler M.F., Diat O..
Small angle X-ray scattering analysis of crazing in rubber toughened polymers: Influence of particle deformation,
Polymer, **39**, 659 (1998).

1126. Kroon M., Vos W.L. and Wegdam G.H.,
Structure and formation of a gel of colloidal disks,
Phys. Rev. E, **57**, 1962 (1998).

1127. Molino F.R., Berret J.F., Porte G., Diat O., and Lindner P.,
Identification of flow mechanisms for a soft crystal,
Eur. Phys. J. B, **3**, 59 (1998).

1128. Ladynski H., De Odorico W., Stamm M.,
Effect of pressure on the microphase separation of the symmetric diblock copolymer poly(styrene-block-butadiene),
J. Non-Cryst. Solids, **235-237**, 491 (1998).

1129. Pople J.A., Hamley I.W., Fairclough J.P.A., Ryan A.J., Booth C.,
Orientational ordering of a poly(oxyethylene)-poly(oxybutylene) diblock copolymer gel under steady shear flow,
Macromolecules, **31**, 2952 (1998).

1130. Pople J.A., Hamley I.W., Terrill N.J., Fairclough J.P.A., Ryan A.J., Yu G.E., Booth C.,
Shear-induced orientational order in the hexagonal phase of oxyethylene/oxybutylene diblock copolymer gels,
Polymer, **39**, 4891 (1998).

1131. Ricoul F., Dubois M., Zemb T., Heck M.P., Vandais A., Plusquellec D., Rico-Lattes I., Diat O.,
An efficient method to determine isothermal ternary phase diagrams using small-angle x-ray scattering,
J. Phys. Chem. B, **102**, 2769 (1998).

1132. Steinhoff B., Ruellmann M., Wenzel M., Junker M., Alig I., Oser R., Stuehn B., Meier G., Diat O., Boesecke P., Stanley H.B.,
Pressure dependence of the order-to-disorder transition in polystyrene/ polyisoprene and polystyrene/poly(methylphenylsiloxane) diblock copolymers,
Macromolecules, **31**, 36 (1998).

1133. Terech P., Allegraud J.J. and Garner C.M.,
Thermoreversible gelation of organic liquids by arylcyclohexanol derivatives: A structural study,
Langmuir, **14**, 3991 (1998).

1997

1134. Boesecke P., Diat O.,
Small angle x-ray scattering at the ESRF high-brilliance beamline,
J. Appl. Cryst., **30**, 867 (1997).

1135. de Moor P.P.E.A., Beelen T.P.M., Komanscheck B.U., Diat O., van Santen R.A.,
In situ investigation of Si-TPA-MFI crystallization using (ultra-) small- and wide-angle x-ray scattering,
J. Phys. Chem. B, **101**, 11077 (1997).

1136. de Moor P.P.E.A., Beelen T.P.M., van Santen R.A.,
Influence of aging and dilution on the crystallization of silicalite-1,
J. Appl. Cryst., **30**, 675 (1997).

1137. Diat O., Boesecke P., Lambard J., de Moor P.P.E.A.,
High-angular-resolution camera coupled with an undulator source at the European Synchrotron Radiation Facility high-brilliance beamline,
J. Appl. Cryst., **30**, 862 (1997).

1138. Francescangeli O., Ferrero C., Lorenzen M., Boesecke P., Paci B., Caciuffo R.,
High-pressure mesomorphic behavior of a chiral polyacrylate by x-ray diffraction in situ,
Phys. Rev. E, **55**, 7121 (1997).

1139. Ligoure C., Bouglet G., Porte G., Diat O.,
Smectic compressibility of polymer-containing lyotropic lamellar phases: An experimental tool to study the thermodynamics of polymer confinement,
J. Phys. (France) II, **7**, 473 (1997).

1140. Lorenzen M., Boesecke P., Ferrero C., Riekel C., Eichler A.,
Small-angle X-ray scattering on two-phase systems under pressure: Determination of thermodynamic parameters,

Macromolecules, **30**, 6645 (1997).

1141. Megens M., van Kats C.M., Boesecke P., Vos W.L.,
In situ characterization of colloidal spheres by synchrotron small-angle x-ray scattering,
Langmuir, **13**, 6120 (1997).

1142. Megens M., van Kats C.M., Boesecke P., Vos W.L.,
Synchrotron small angle x-ray scattering of colloids and photonic colloidal crystals,
J. Appl. Cryst., **30**, 637 (1997).

1143. Naudon A., Thiaudière D.,
Grazing-incidence small-angle scattering. Morphology of deposited clusters and nanostructure of thin films,
J. Appl. Cryst., **30**, 822 (1997).

1144. Pignon F., Magnin A., Piau J.M., Cabane B., Lindner P., Diat O.,
Yield stress thixotropic clay suspension: Investigations of structure by light, neutron, and X-ray scattering,
Phys. Rev. E, **56**, 3281 (1997).

1145. Snigirev, A., Snigireva, I., Bösecke, P., Lequien, S., and Schelokov, I.,
High energy X-ray phase contrast microscopy using a circular Bragg-Fresnel lens,
Optics Comm., **135**, 378 (1997).

1146. Vos W.L., Megens M., van Kats C.M., Boesecke P.,
X-ray diffraction of photonic colloidal single crystals,
Langmuir, **13**, 6004 (1997).

1147. Wagner J., Janssen S., Hirscher M., Boesecke P., and Hempelmann R.,
Growth kinetics of nanocrystalline CuTi by means of time-resolved SAXS,
Ber. Bunsenges. Phys. Chem., **101**, 1738 (1997).

1996

1148. Caciuffo R., Francescangeli O., Paci B., Boesecke P., Ferrero C., Lorenzen M.,
Pressure-induced stabilization of the smectic A* phase in a chiral polyacrylate,
Europhys. Lett., **34**, 501 (1996).

1149. Diat O., Porte G., and Berret J.F.,
Orientation and twins separation in a micellar cubic crystal under oscillating shear,
Phys. Rev. B, **54**, 14869 (1996).

1150. Dobbie I., Piazzesi G., Reconditi M., Boesecke P., Diat O., Irving M., and Lombardi V.,
Myosin structural changes accompanying force development and steady shortening in single intact fibres from frog skeletal muscle,
J. Muscle Res. Cell Motil., **17**, 163 (1996).

1151. He C., Donald A.M., Buttler M.F., and Diat O.,
In-situ deformation studies of rubber toughened PMMA: A SAXS analysis of the response of core shell particles to deformation,
Macromol. Symp., **112**, 115 (1996).

1152. Lorenzen M.,Boesecke P.,Riekel C.,Reynders K., Reynaers H.,and Overbergh N.,
Hard domain compression of triblock-copolymer gels by high pressure x-ray small-angle scattering,
Macromol. Rapid Comm., **17**, 189 (1996).

1153. Mariani P., Paci B., Boesecke P., Ferrero C., Lorenzen M., and Caciuffo R.,
Effects of hydrostatic pressure on the monoolein-water system: an estimate of the energy function of the inverted Ia3d cubic phase,
Phys. Rev. E, 54, 5840 (1996).

1154. Riekel C., Boesecke P., Diat O., Engstroem P.,
New opportunities in small-angle x-ray scattering and wide-angle x-ray scattering at a third generation synchrotron radiation source,
J. Mol. Struct., **383**, 291 (1996).

1155. Vos W.L., Megens M., van Kats C.M., and Boesecke P.,
Transmission and diffraction by photonic colloidal crystals,
J. Phys. Condens. Matter, **8**, 9503 (1996).

1995

1156. P. Boesecke, O. Diat and B. Rasmussen,
High-brilliance Beamline at the European Synchrotron Radiation Facility,
Rev. Sci. Instrum., **66**, 1636 (1995).

1157. Diat O., Boesecke P., Ferrero C., Freund A.K., Lambard J., Heintzmann R.,
Ultra-small-angle X-ray scattering with a Bonse-Hart camera on the high brilliance beamline at the ESRF,
Nucl. Instrum. Methods Phys. Res. A, **356**, 566 (1995).

1158. Fischer H., Poser S., and Arnold M.,
Liquid crystalline side group block copolymers with n-butyl methacrylate as an

amorphous A-block: synthesis and characterization,
Macromolecules, **28**, 6957 (1995).

1159. Lorenzen M., Ferrero C., Diat O., Riekel C., and Mayerhofer U.,
A program package for pre-processing of 2D detector data,
J. Appl. Cryst., **28**, 630 (1995).

1992

1160. Boesecke P.,
The high-flux beamline at the ESRF,
Rev. Sci. Instrum., **63**, 438 (1992).

1161. Riekel C., Boesecke P., and Sánchez del Río M.,
Two high brilliance beamlines at the ESRF dedicated to microdiffraction, biological crystallography, and small angle scattering,
Rev. Sci. Instrum., **63**, 974 (1992).