

**ID02 SAXS Related Publications:** (Last update: March 2024)

The article title in bold indicates the significance either entirely or an important part carried out using ID02 instrument.

**2024**

1. Bauland, J., Manna, G., Divoux, T., and Gibaud, T.,  
*Structural and contact-driven aging in a natural colloidal gel*,  
Submitted (2024).
2. Bianchi, E., Ruggeri, M., Del Favero, E., Pisano, R., Artusio, F., Ricci, C., Vigani, B., Ferraretto, A., Boselli, C., Cornaglia, A.I., Rossi, S., and Sandri, G.,  
*Chondroitin sulfate and caseinophosphopeptides doped polyurethane-based highly porous 3D scaffolds for tendon-to-bone regeneration*,  
*Int. J. Pharm.*, **652**, 123822 (2024).
3. Bruns, H., Czajka, T.S., Sztucki, M., Brandenburg, S., and Salditt, T.,  
**Sarcomere, troponin, and myosin X-ray diffraction signals can be resolved in single cardiomyocytes**,  
Submitted to *Biophys. J.* (2024)
4. Chèvremont, W., and Narayanan, T.,  
**A Correction Procedure for Secondary Scattering Contributions from Windows in SAXS and USAXS**,  
*J. Appl. Cryst.*, **57**, xxx (2024). <https://doi.org/10.1107/S1600576724001997>
5. Chèvremont, W., Zinn, T., and Narayanan, T.,  
**Improvement of ultra-small-angle XPCS with the Extremely Brilliant Source**,  
*J. Synchrotron Rad.*, **31**, 65–76 (2024).
6. Cristiglio, V., Feng, S., Sztucki, M., Yuan, X., and Shalaev, E.,  
*Two populations of protein molecules detected by small-angle neutron and X-ray scattering (SANS and SAXS) in lyophilized protein:lyoprotector systems*,  
Submitted (2024)
7. Denk, P., Matthews, L., Prévost, S., Zemb, T., and Kunz, W.,  
**A dilute nematic gel produced by intramolecular segregation of two polyoxyethylene alkyl ether carboxylic acids**,  
*J. Colloid Interface Sci.*, **659**, 833-848 (2024).
8. Denk, P., Matthews, L., Zemb, T. and Kunz, W.,  
**Formulating additives in thermoresponsive surfactant-based nematic liquid crystals**,  
*Tenside Surfactants Detergents*, (2024).
9. De Witte, F., Penagos, I.A., Rondou, K., Moens, K., Lewille, B., Tzompa-Sosa, D.A., Van de Walle, D., Van Bockstaele, F., Skirtach, A.G. and Dewettinck, K.,  
*Insights in the Structural Hierarchy of Statically Crystallized Palm Oil, Crystals*, **14**, 142 (2024).

10. Djeghdi, K., Schumacher, C., Bauernfeind, V., Gunkel, I., Wilts, B. and Steiner, U., *Anoplophora graafi* longhorn beetle coloration is due to disordered diamond-like packed spheres, *Soft Matter* (2024).
11. Falsini, S., Nieri, T., Schiff, S., Papini, A., Salvatici, M.C., Carella, G., Mugnai, L., Gonnelli, C. and Ristori, S., *Enhancing the Efficacy of Natural Repellents Against Grapevine Pathogens by Tannins-Lignin-Mixed Nanovectors*, *BioNanoSci.*, **14**, 474–484 (2024).
12. Fournier, S., Chevalier, J., Perez-Robles, S., Carotenuto, C., Minale, M., Reveron, H. and Baeza, G.P., *Spreading ceramic stereolithography pastes: Insights from shear-and orthogonal-rheology*. *J. Rheol.*, **68**, 83-97 (2024).
13. Garina, E.D., den Adel, R., van Duynhoven, J.P.M., Smith, G.N., Dalgliesh, R.M., Sztucki, M., and Bouwman, W.G., *SANS and SAXS: a Love Story to Unravel Nanostructural Evolution of Soy Proteins and Insoluble Fibres during High Moisture Extrusion for Meat Alternatives*, Submitted (2024).
14. Guareschi, F., Del Favero, E., Ricci, C., Cantù, L., Brandolini, M., Sambri, V., Nicoli, S., Pescina, S., D'Angelo, D., Rossi, I., Buttini, F., Bettini, R., and Sonvico, F., **Cyclosporine A micellar nasal spray characterization and antiviral action against SARS-CoV-2**, *Eur. J. Pharm. Sci.*, **193**, 106673 (2024).
15. Hunter, S.J., Chohan, P., Varlas, S. and Armes, S.P., *Effect of Temperature, Oil Type, and Copolymer Concentration on the Long-Term Stability of Oil-in-Water Pickering Nanoemulsions Prepared Using Diblock Copolymer Nanoparticles*. *Langmuir*, **40**, 3702–3714 (2024).
16. Kamal, M.A., Brizioli, M., Zinn, T., Narayanan, T., Cerbino, R., Giavazzi, F., and Pal, A., **Dynamics of anisotropic colloidal systems: What to choose, DLS, DDM or XPCS?** *J. Colloid Interface Sci.*, **660**, 314-320 (2024).
17. Komarova, T., Zinn, T., Narayanan, T., Petukhov, A.V. and Landman, J., **Microtube self-assembly leads to conformational freezing point depression**, *arXiv:2312.05637* (2024).
18. Liu, J., Sixta, H., Ogawa, Y., Hummel, M., Sztucki, M., Nishiyama, Y., and Burghammer, M., *Multiscale structure of cellulose microfibrils in regenerated cellulose fibers*, *Carbohydr. Polym.*, **324**, 121512 (2024).
19. Mandin, S., Metilli, L., Karrouch, M., Lancelon-Pin, C., Putaux, J.-L., Chèvremont, W., Hengl, N., Jean, B., and Pignon, F., **Chiral nematic nanocomposites with pitch gradient based on cellulose nanocrystals designed by an innovative method combining filtration and ultraviolet curing**,

Submitted (2024).

20. Manna, G., Zinn, T., Sharpnack, L., and Narayanan, T.,  
**Oriental ordering and assembly of silica–nickel Janus particles in a magnetic field,**  
*IUCrJ* **11**, 109-119 (2024).
21. Marcello, M., Cetrangolo, V., Morotti, I., Squarci, C., Caremani, M., Reconditi, M.,  
Savarese, M., Bianco, P., Piazzesi, G., Lombardi, V., Udd, B., Conte, I., Nigro, V., and Linari,  
M.,  
*Sarcomere level mechanics of the fast skeletal muscle of the medaka fish larva,*  
*Am. J Physiol.*, **326**, C632-C644 (2024).
22. Matthews, L., and Schmetterer, M.,  
**Unusual Structural Insights Revealed by Rheo–SAXS Studies of Nonaqueous  
Crystalline Gels,**  
*Langmuir*. **40**, 4207–4217 (2024).
23. Narayanan T.,  
**Recent advances in synchrotron scattering methods for probing the structure and  
dynamics of colloids,**  
*Adv. Colloid Interface Sci.*, **325**, 103114 (2024).
24. Otto F., Dallari F., Westermeier F., Wieland D.F., Parak W.J., Lehmkuhler F., and Schulz  
F.,  
**The dynamics of PEG-coated nanoparticles in concentrated protein solutions up to the  
molecular crowding range,**  
*Aggregate*, **2024**, e483 (2024).
25. Penagos, I.A., De Witte, F., Rimaux, T., Chèvremont, W., Dewettinck, K., and Van  
Bockstaele, F.,  
**A shape dependent model for ultra-small angle X-ray scattering data of triglycerides,**  
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26. Pignon, F., Guilbert, E., Mandin, S., Hengl, N., Karrouch, M., Jean, B., Putaux, J.L.,  
Gibaud, T., Manneville, S., and Narayanan, T.,  
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*J. Colloid Interface Sci.*, **659**, 914-925 (2024).
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directionality and is perturbed by salicylidene acylhydrazide binding,*  
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*A synchrotron X-ray scattering study of the crystallization behavior of mixtures of  
confectionary triacylglycerides: Effect of chemical composition and shear on polymorphism  
and kinetics,*  
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**Small-angle X-ray scattering unveils the internal structure of lipid nanoparticles,**  
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30. Stubhan, S., Baptist, A.V., Korosy, C., Narducci, A., Moya Munoz, G.G., Wendler, N., Lak, A., Sztucki, M., Cordes, T. and Lipfert, J.,  
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31. Yolsal, U, Neal, T.J., Richards, J.A., Royer, J.R., and Garden, J.A.,  
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32. Andrieux, V., Gibaud, T., Bauland, J., Divoux, T., Manneville, S., Guy, S., Bensalah-Ledoux, A., Guy, L., Chevallier, F., Frath, D., and Bucher, C.  
*Chiral and conductive viologen-based supramolecular gels exhibiting tunable charge-transfer properties,*  
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*Synthesis of calamitic fluorinated mesogens with complex crystallization behavior,*  
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34. Asor, R., Singaram, S.W., Levi-Kalishman, Y., Hagan, M.F., and Raviv, U.,  
**Effect of ionic strength on the assembly of simian vacuolating virus capsid protein around poly(styrene sulfonate),**  
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35. Baglioni, M., Mastrangelo, R., Tempesti, P., Ogura, T., and Baglioni, P.,  
**Cryogels loaded with nanostructured fluids studied by ultra-small-angle X-ray scattering,**  
Colloid Surf. A, **660**, 130857 (2023).
36. Bauernfeind, V., Djeghdi, K., Gunkel, I., Steiner, U., and Wilts, B.D.,  
*Photonic Amorphous I-WP-Like Networks Create Angle-Independent Colors in Sternotomis virescens Longhorn Beetles,*  
Adv. Funct. Mater., **2023**, 2302720 (2023).
37. Bianchi E., Ruggeri M., Vigani B., Del Favero E., Ricci C., Boselli C., Cornaglia A.I., Viseras C., Rossi S., and Sandri G.,  
*Cerium oxide and chondroitin sulfate doped polyurethane scaffold to bridge tendons,*  
ACS Appl. Mater. Interfaces, **15**, 26510-26524 (2023).

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*Electrospun scaffolds based on poly(butyl cyanoacrylate) for tendon tissue engineering*,  
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39. Bjørnstad V.A., Li X., Tribet C., Lund R., and Cascella M.,  
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41. Bjørnstad V.A., Soto-Bustamante F., Tria G., Laurati M., and Lund R.,  
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J. Colloid Interface Sci., **641**, 553-567 (2023).
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Polymers **15**, 1344 (2023).
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44. Caremani M., Fusi L., Reconditi M., Piazzesi G., Narayanan T., Irving M., Lombardi V., Linari M., and Brunello E.,  
**Dependence of myosin filament structure on intracellular calcium concentration in skeletal muscle**,  
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45. Chèvremont, W.,  
**SpatDistCalib: A GUI Python software for spatial-distortion correction of 2D detectors using splines**,  
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*Forensics of polymer networks*,  
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49. Doderio A., Djeghdi K., Bauernfeind V., Airoidi M., Wilts B.D., Weder C., Steiner U., and Gunkel I.,  
*Robust full-spectral color tuning of photonic colloids*,  
Small **19**, 2205438 (2023).
50. Falsini S., Intiso A., Spinozzi F., Ristori S., Marchettini N., Garza-Arevalo J.I., Prévost S., Sanchez-Dominguez M., and Rossi F.,  
*Physico-chemical characterization of Synperonic™ 91/5 self-assembly behaviour in water*,  
Colloid Surf., A, **673**, 131799 (2023).
51. Franzè S., Ricci C., Del Favero E., Rama F., Casiraghi A., and Cilurzo F.,  
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*Monitoring Solidification and Storage Stability of Well-Tempered Chocolates Obtained Through Various Pre-crystallization Techniques*.  
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*New insights into the nucleation of portlandite and the effects of polymeric additives*,  
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61. Matthews and T. Narayanan,  
**Advances in synchrotron scattering method for probing the self-assembly pathways in dilute surfactant solutions**,  
Colloid Polym Sci., **301**, 721 (2023).
62. Maw M.R., Tanas A.K., Dashtimoghadam E., Nikitina E.A., Ivanov D.A., Dobrynin A.V., Vatankeh-Varnosfaderani M., and Sheiko S.S.,  
*Bottlebrush thermoplastic elastomers as hot-melt pressure-sensitive adhesives*,  
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63. Maw M., Dashtimoghadam E., Keith A.N., Morgan B.J., Tanas A.K., Nikitina E., Ivanov D.A., Vatankeh-Varnosfaderani M., Dobrynin A.V., and Sheiko S.S.,  
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65. Narayanan T., Chèvremont W., and Zinn T.,  
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66. Nigro V., Buratti E., Limosani F., Angelini R., Dinelli F., Franco S., Nichelatti E., Piccinini M., Vincenti M.A., Montereali R.M., and Ruzicka B.,  
*Spin-coating deposition of thermoresponsive microgel thin films*,  
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*Hexagonal-close-packed colloidal crystals in *Glenea celestis* beetles*,  
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68. Poirier A., Le Griel P., Bizien T., Zinn T., Pernot P., and Baccile N.,  
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69. Pommella A., Griffiths P., Coativy G., Dalmás F., Ranoo S., Schmidt A.M., Méchin F., Bernard J., Zinn T., Narayanan T., Meille S., and Baeza G.P.,  
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