

Yuya Shinohara

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

1,875
citations

236925

25
h-index

276875

41
g-index

83
all docs

83
docs citations

83
times ranked

1947
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Multipurpose soft-material SAXS/WAXS/GISAXS beamline at SPring-8. <i>Polymer Journal</i> , 2011, 43, 471-477. | 2.7 | 112 |
| 2 | Small-Angle X-ray Scattering Study of the Pulley Effect of Slide-Ring Gels. <i>Macromolecules</i> , 2006, 39, 7386-7391. | 4.8 | 98 |
| 3 | Systematic Transitions of Tiling Patterns Formed by ABC Star-Shaped Terpolymers. <i>Macromolecules</i> , 2006, 39, 9402-9408. | 4.8 | 96 |
| 4 | Deformation Behavior of Isotactic Polypropylene Spherulite during Hot Drawing Investigated by Simultaneous Microbeam SAXS-WAXS and POM Measurement. <i>Macromolecules</i> , 2007, 40, 2036-2045. | 4.8 | 78 |
| 5 | Archimedean Tiling Patterns of ABC Star-Shaped Terpolymers Studied by Microbeam Small-Angle X-ray Scattering. <i>Macromolecules</i> , 2006, 39, 4869-4872. | 4.8 | 74 |
| 6 | Synergy Effect on Morphology Switching: Real-Time Observation of Photo-Orientation of Microphase Separation in a Block Copolymer. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 5884-5888. | 13.8 | 66 |
| 7 | Structural analysis of human hair single fibres by scanning microbeam SAXS. <i>Journal of Structural Biology</i> , 2006, 155, 438-444. | 2.8 | 59 |
| 8 | Photonic Block Copolymer Films Swollen with an Ionic Liquid. <i>Macromolecules</i> , 2014, 47, 4103-4109. | 4.8 | 59 |
| 9 | Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber. <i>Macromolecules</i> , 2010, 43, 9480-9487. | 4.8 | 57 |
| 10 | Hydrophobic Molecules Infiltrating into the Poly(ethylene glycol) Domain of the Core/Shell Interface of a Polymeric Micelle: Evidence Obtained with Anomalous Small-Angle X-ray Scattering. <i>Journal of the American Chemical Society</i> , 2013, 135, 2574-2582. | 13.7 | 56 |
| 11 | Observation of the Transient Rotator Phase of n-Hexadecane in Emulsified Droplets with Time-Resolved Two-Dimensional Small- and Wide-Angle X-Ray Scattering. <i>Physical Review Letters</i> , 2005, 94, 097801. | 7.8 | 54 |
| 12 | Experimental station for multiscale surface structural analyses of soft-material films at SPring-8 via a GISWAX/GIXD/XR-integrated system. <i>Polymer Journal</i> , 2013, 45, 109-116. | 2.7 | 51 |
| 13 | Characterization of two-dimensional ultra-small-angle X-ray scattering apparatus for application to rubber filled with spherical silica under elongation. <i>Journal of Applied Crystallography</i> , 2007, 40, s397-s401. | 4.5 | 50 |
| 14 | Effect of Structural Inhomogeneity on Mechanical Behavior of Injection Molded Polypropylene Investigated with Microbeam X-ray Scattering. <i>Macromolecules</i> , 2012, 45, 1398-1407. | 4.8 | 43 |
| 15 | Microbeam X-ray Diffraction Analysis of Interfacial Heterogeneous Nucleation of n-Hexadecane inside Oil-in-Water Emulsion Droplets. <i>Crystal Growth and Design</i> , 2008, 8, 3123-3126. | 3.0 | 41 |
| 16 | Effect of shot noise on X-ray speckle visibility spectroscopy. <i>Optics Express</i> , 2012, 20, 26878. | 3.4 | 40 |
| 17 | Pathways toward Photoinduced Alignment Switching in Liquid Crystalline Block Copolymer Films. <i>Macromolecules</i> , 2014, 47, 7178-7186. | 4.8 | 40 |
| 18 | Crystallinity and Cooperative Motions of Cyclic Molecules in Partially Threaded Solid-State Polyrotaxanes. <i>Macromolecules</i> , 2010, 43, 4660-4666. | 4.8 | 37 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Upgrade of the small angle X-ray scattering beamlines at the Photon Factory. Journal of Physics: Conference Series, 2011, 272, 012026. | 0.4 | 36 |
| 20 | Structural changes of silica particles in elongated rubber by two-dimensional small-angle X-ray scattering and extended reverse Monte Carlo analysis. Rheologica Acta, 2008, 47, 537-541. | 2.4 | 33 |
| 21 | Influence of Branch Incorporation into the Lamella Crystal on the Crystallization Behavior of Polyethylene with Precisely Spaced Branches. Macromolecules, 2013, 46, 4438-4446. | 4.8 | 33 |
| 22 | Changes in structure and geometric properties of human hair by aging. Journal of Cosmetic Science, 2009, 60, 637-48. | 0.1 | 30 |
| 23 | New Aspects for the Hierarchical Cooperative Motions in Photoalignment Process of Liquid Crystalline Block Copolymer Films. Macromolecules, 2015, 48, 2217-2223. | 4.8 | 29 |
| 24 | Anomalous Small-Angle X-ray Scattering Study of Structure of Polymer Micelles Having Bromines in Hydrophobic Core. Macromolecules, 2012, 45, 6150-6157. | 4.8 | 27 |
| 25 | Dependence of the swelling behavior of a pH-responsive PEG-modified nanogel on the cross-link density. Polymer Journal, 2012, 44, 240-244. | 2.7 | 26 |
| 26 | Application of Microbeam Small- and Wide-angle X-ray Scattering to Polymeric Material Characterization. Polymer Journal, 2007, 39, 1221-1237. | 2.7 | 25 |
| 27 | Composition Dependence of the Micellar Architecture Made from Poly(ethylene Terephthalate) and Poly(ethylene Glycol) Block Copolymer. Journal of Applied Crystallography, 2012, 45, 8241-8250. | 2.6 | 25 |
| 28 | Viscosity and real-space molecular motion of water: Observation with inelastic x-ray scattering. Physical Review E, 2018, 98, 022604. | 2.1 | 25 |
| 29 | Structural Analysis of Filler in Rubber Composite under Stretch with Time-Resolved Two-Dimensional Ultra-Small-Angle X-Ray Scattering. Rubber Chemistry and Technology, 2008, 81, 541-551. | 1.2 | 24 |
| 30 | Cross Nucleation in Polyethylene with Precisely Spaced Ethyl Branches. ACS Macro Letters, 2012, 1, 772-775. | 4.8 | 24 |
| 31 | Dynamic photoinduced realignment processes in photoresponsive block copolymer films: effects of the chain length and block copolymer architecture. Soft Matter, 2015, 11, 5918-5925. | 2.7 | 22 |
| 32 | Structural analysis of single wool fibre by scanning microbeam SAXS. Journal of Applied Crystallography, 2005, 38, 420-425. | 4.5 | 19 |
| 33 | Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. Journal of Physics Condensed Matter, 2007, 19, 152101. | 1.8 | 19 |
| 34 | Formation of a Multiscale Aggregate Structure through Spontaneous Blebbing of an Interface. Langmuir, 2012, 28, 3378-3384. | 3.5 | 19 |
| 35 | Microscopic deformation behavior of hard elastic polypropylene during cold-stretching process in fabrication of microporous membrane as revealed by synchrotron X-ray scattering. Polymer, 2015, 70, 215-221. | 3.8 | 19 |
| 36 | Deformation behavior of banded spherulite during drawing investigated by simultaneous microbeam SAXS and WAXS and POM measurement. Polymer, 2010, 51, 222-231. | 3.8 | 18 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Characterizing transverse coherence of an ultra-intense focused X-ray free-electron laser by an extended Young's experiment. <i>IUCr</i> , 2015, 2, 620-626. | 2.2 | 18 |
| 38 | Indirectly illuminated X-ray area detector for X-ray photon correlation spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 737-742. | 2.4 | 17 |
| 39 | Combined measurement of X-ray photon correlation spectroscopy and diffracted X-ray tracking using pink beam X-rays. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 801-804. | 2.4 | 16 |
| 40 | Split-pulse X-ray photon correlation spectroscopy with seeded X-rays from X-ray laser to study atomic-level dynamics. <i>Nature Communications</i> , 2020, 11, 6213. | 12.8 | 16 |
| 41 | Local correlated motions in aqueous solution of sodium chloride. <i>Physical Review Materials</i> , 2019, 3, . | 2.4 | 16 |
| 42 | Pinhole-type two-dimensional ultra-small-angle X-ray scattering on the micrometer scale. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1-4. | 2.4 | 15 |
| 43 | Determination of lamellar twisting manner in a banded spherulite with scanning microbeam X-ray scattering. <i>Polymer</i> , 2010, 51, 1632-1638. | 3.8 | 14 |
| 44 | X-ray irradiation induces local rearrangement of silica particles in swollen rubber. <i>Journal of Synchrotron Radiation</i> , 2015, 22, 119-123. | 2.4 | 14 |
| 45 | Observation of microscopic dynamics of carbon black in rubber during the vulcanization process. <i>Soft Matter</i> , 2012, 8, 3457. | 2.7 | 13 |
| 46 | Identifying Water's Anion Correlated Motion in Aqueous Solutions through Van Hove Functions. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7119-7125. | 4.6 | 13 |
| 47 | X-ray Photon Correlation Spectroscopy of Filler in Rubber. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L300-L302. | 1.5 | 12 |
| 48 | Determining Gyration Tensor of Orienting Macromolecules through Their Scattering Signature. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3978-3984. | 4.6 | 11 |
| 49 | Local self-motion of water through the Van Hove function. <i>Physical Review E</i> , 2020, 102, 032604. | 2.1 | 11 |
| 50 | Macroscopically homogeneous deformation in injection molded polypropylene induced by annealing studied with microbeam X-ray scattering. <i>Polymer</i> , 2015, 70, 315-325. | 3.8 | 9 |
| 51 | Orientational Distribution Function of Aligned Elongated Molecules and Particulates Determined from Their Scattering Signature. <i>ACS Macro Letters</i> , 2019, 8, 1257-1262. | 4.8 | 9 |
| 52 | Correlated atomic dynamics in liquid seen in real space and time. <i>Journal of Chemical Physics</i> , 2020, 153, 180902. | 3.0 | 9 |
| 53 | Investigating the Accuracy of Water Models through the Van Hove Correlation Function. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 5992-6005. | 5.3 | 9 |
| 54 | Visualization of nanoscale deformation in polymer composites with zernike-type phase-contrast X-ray microscopy and the finite element method. <i>Polymer Journal</i> , 2013, 45, 64-69. | 2.7 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Distribution of sulfur in styrene-butadiene rubber studied with anomalous small-angle X-ray scattering at sulfur K-edge. <i>Polymer</i> , 2016, 105, 368-377. | 3.8 | 7 |
| 56 | Volume Phase Transitions of Slide-Ring Gels. <i>Polymers</i> , 2016, 8, 217. | 4.5 | 6 |
| 57 | Microscopic structural response of nanoparticles in styrene-butadiene rubber under cyclic uniaxial elongation. <i>Polymer Journal</i> , 2019, 51, 161-171. | 2.7 | 6 |
| 58 | Observation of Filler Dynamics in Rubber with X-ray Photon Correlation Spectroscopy. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011, 24, 012005. | 0.6 | 5 |
| 59 | Dynamics of water in real space and time. <i>Molecular Physics</i> , 2019, 117, 3227-3231. | 1.7 | 5 |
| 60 | Development of Extended Reverse Monte Carlo Method for Analysis of 2D-USAXS Experimental Data. <i>AIP Conference Proceedings</i> , 2006, , . | 0.4 | 4 |
| 61 | Anomalous Small-angle X-ray Scattering Study on Aggregation of a Block Copolymer in a Selective Solvent. <i>Journal of Physics: Conference Series</i> , 2011, 272, 012022. | 0.4 | 4 |
| 62 | Effect of finite spatial coherence length on small-angle scattering. <i>Journal of Applied Crystallography</i> , 2015, 48, 1660-1664. | 4.5 | 4 |
| 63 | Characterization of Polymer Micelles by the Combination of SAXS and FFF-MALS. <i>Kobunshi Ronbunshu</i> , 2012, 69, 346-357. | 0.2 | 4 |
| 64 | Real-Space Local Dynamics of Molten Inorganic Salts Using Van Hove Correlation Function. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5956-5962. | 4.6 | 4 |
| 65 | Feasibility Study on Anomalous Small-Angle X-ray Scattering near SulphurK-edge. <i>Journal of Physics: Conference Series</i> , 2010, 247, 012006. | 0.4 | 3 |
| 66 | Improvement of SAXS Measurement near the SulfurK-edge. <i>Journal of Physics: Conference Series</i> , 2011, 272, 012014. | 0.4 | 3 |
| 67 | Photo-switching Behavior of Microphase Separated Structure in Liquid Crystalline Azobenzene Block Copolymers Possessing Different Poly(alkyl methacrylate) Blocks. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 617, 5-13. | 0.9 | 3 |
| 68 | A study of ADMET polyethylene with 21-carbon branches on every 15th compared to every 19th carbon: What a difference four extra backbone methylenes make. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3090-3096. | 2.3 | 3 |
| 69 | Determining population densities in bimodal micellar solutions using contrast-variation small angle neutron scattering. <i>Journal of Chemical Physics</i> , 2020, 153, 184902. | 3.0 | 3 |
| 70 | Resonant ultrasound spectroscopy probe for in-situ neutron scattering measurements. <i>Proceedings of Meetings on Acoustics</i> , 2021, , . | 0.3 | 3 |
| 71 | Small angle scattering of diblock copolymers profiled by machine learning. <i>Journal of Chemical Physics</i> , 2022, 156, 131101. | 3.0 | 3 |
| 72 | pH-Responsive Structural Change of PEGylated Amine-Bearing Nanogel Explored by Small Angle X-ray Scattering. <i>Journal of Physics: Conference Series</i> , 2011, 272, 012018. | 0.4 | 2 |

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|----|--|-----|-----------|
| 73 | Three-Dimensional Structural Analysis of Lipid and DNA Complex using Zernike Phase Contrast Transmission Electron Microscope Tomography. Biophysical Journal, 2012, 102, 650a. | 0.5 | 0 |
| 74 | Micro Scale Distribution of Nanoparticles Studied with X-ray Near-Field Scattering. Kobunshi Ronbunshu, 2014, 71, 580-585. | 0.2 | 0 |
| 75 | Time-Resolved Small-Angle X-ray Scattering for Soft Matter. Nihon Kessho Gakkaishi, 2016, 58, 180-185. | 0.0 | 0 |
| 76 | Characterization of Polymers by Advanced Quantum Beam. Seikei-Kakou, 2008, 20, 419-422. | 0.0 | 0 |
| 77 | Structural Inhomogeneity of Injection Molding Studied with Microbeam X-Ray Diffraction. Seikei-Kakou, 2013, 25, 506-511. | 0.0 | 0 |
| 78 | Study of Rubbery Materials with X-ray Photon Correlation Spectroscopy. Nippon Gomu Kyokaishi, 2017, 90, 190-194. | 0.0 | 0 |
| 79 | X-ray free-electron laser heating of water at picosecond time scale. Physical Review Research, 2022, 4, . | 3.6 | 0 |
| 80 | Ion Atmosphere of Wormlike Micelles Profiled by Contrast Variation Small-Angle Neutron Scattering. ACS Macro Letters, 2022, 11, 66-71. | 4.8 | 0 |