

# Yoshiyuki Amemiya

## List of Publications by Year in descending order

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214  
papers

7,216  
citations

61984

43  
h-index

69250

77  
g-index

215  
all docs

215  
docs citations

215  
times ranked

4484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging plate illuminates many fields. <i>Nature</i> , 1988, 336, 89-90.	27.8	540
2	X-ray diffraction evidence for the extensibility of actin and myosin filaments during muscle contraction. <i>Biophysical Journal</i> , 1994, 67, 2422-2435.	0.5	449
3	A new type of X-ray area detector utilizing laser stimulated luminescence. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986, 246, 572-578.	1.6	306
4	Aggregation of bovine serum albumin upon cleavage of its disulfide bonds, studied by the time-resolved small-angle x-ray scattering technique with synchrotron radiation. <i>Biophysical Chemistry</i> , 1985, 23, 115-124.	2.8	199
5	Application of an imaging plate to high-pressure x-ray study with a diamond anvil cell (invited). <i>Review of Scientific Instruments</i> , 1992, 63, 967-973.	1.3	181
6	Design of small-angle X-ray diffractometer using synchrotron radiation at the photon factory. <i>Nuclear Instruments &amp; Methods in Physics Research</i> , 1983, 208, 471-477.	0.9	176
7	Protein Globularization During Folding. A Study by Synchrotron Small-angle X-ray Scattering. <i>Journal of Molecular Biology</i> , 1996, 262, 559-574.	4.2	170
8	Design and performance of an imaging plate system for X-ray diffraction study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1988, 266, 645-653.	1.6	162
9	Small-angle synchrotron x-ray scattering reveals distinct shape changes of the myosin head during hydrolysis of ATP. <i>Science</i> , 1992, 258, 443-447.	12.6	140
10	Large-aperture TV detector with a beryllium-windowed image intensifier for x-ray diffraction. <i>Review of Scientific Instruments</i> , 1995, 66, 2290-2294.	1.3	122
11	Small-Angle X-ray Scattering Study of Supercritical Carbon Dioxide. <i>The Journal of Physical Chemistry</i> , 1996, 100, 418-421.	2.9	118
12	Laser-stimulated luminescence used to measure x-ray diffraction of a contracting striated muscle. <i>Science</i> , 1987, 237, 164-168.	12.6	117
13	Kinetic refolding of $\beta^2$ -lactoglobulin. Studies by synchrotron X-ray scattering, and circular dichroism, absorption and fluorescence spectroscopy 1 Edited by P. E. Wright. <i>Journal of Molecular Biology</i> , 1998, 275, 149-162.	4.2	114
14	Thermodynamic and Kinetic Study on Phase Behavior of Binary Mixtures of POP and PPO Forming Molecular Compound Systems. <i>Journal of Physical Chemistry B</i> , 1997, 101, 3498-3505.	2.6	104
15	Synchrotron Radiation X-ray Diffraction Study of Liquid Crystal Formation and Polymorphic Crystallization of SOS (sn-1,3-Distearoyl-2-oleoyl Glycerol). <i>Journal of Physical Chemistry B</i> , 1997, 101, 6847-6854.	2.6	102
16	Fast Compaction of $\beta$ -Lactalbumin During Folding Studied by Stopped-flow X-ray Scattering. <i>Journal of Molecular Biology</i> , 2002, 321, 121-132.	4.2	100
17	Small-Angle X-ray Scattering Study of the Pulley Effect of Slide-Ring Gels. <i>Macromolecules</i> , 2006, 39, 7386-7391.	4.8	98
18	Evidence for molecular dissociation in bromine near 80 GPa. <i>Physical Review Letters</i> , 1989, 63, 536-539.	7.8	97

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19	Systematic Transitions of Tiling Patterns Formed by ABC Star-Shaped Terpolymers. <i>Macromolecules</i> , 2006, 39, 9402-9408.	4.8	96
20	Thermal and structural properties of sn-1,3-dipalmitoyl-2-oleoylglycerol and sn-1,3-dioleoyl-2-palmitoylglycerol binary mixtures examined with synchrotron radiation X-ray diffraction. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1997, 74, 1213-1220.	1.9	90
21	Crystallographic characterization by X-ray diffraction of the M <sub>2</sub> intermediate from the photocycle of bacteriorhodopsin at room temperature. <i>FEBS Letters</i> , 1991, 292, 73-75.	2.8	89
22	Using hair to screen for breast cancer. <i>Nature</i> , 1999, 398, 33-34.	27.8	85
23	Synchrotron radiation X-ray diffraction study on phase behavior of PPP-POP binary mixtures. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 1996, 73, 1567-1572.	1.9	81
24	Observation of femtosecond X-ray interactions with matter using an X-ray "X-ray pump" probe scheme. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1492-1497.	7.1	80
25	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
26	Aerosol-OT Reversed Micellar Formation at Low Water-Surfactant Ratio Studied by Synchrotron Radiation Small-Angle X-ray Scattering. <i>The Journal of Physical Chemistry</i> , 1995, 99, 6652-6660.	2.9	76
27	Imaging Plates for Use with Synchrotron Radiation. <i>Journal of Synchrotron Radiation</i> , 1995, 2, 13-21.	2.4	75
28	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
29	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
30	Structural analysis of human hair single fibres by scanning microbeam SAXS. <i>Journal of Structural Biology</i> , 2006, 155, 438-444.	2.8	59
31	Devil's Staircase-Type Phase Transition in NaV <sub>2</sub> O <sub>5</sub> under High Pressure. <i>Physical Review Letters</i> , 2001, 87, 086402.	7.8	57
32	Microscopic Observation of Aging of Silica Particles in Unvulcanized Rubber. <i>Macromolecules</i> , 2010, 43, 9480-9487.	4.8	57
33	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
34	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
35	Imaging plate for time-resolved x-ray measurements (invited). <i>Review of Scientific Instruments</i> , 1989, 60, 1552-1556.	1.3	51
36	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

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37	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
38	Imaging plate X-ray area detector based on photostimulable phosphor. <i>Synchrotron Radiation News</i> , 1990, 3, 21-26.	0.8	46
39	Tunable X-ray polarimeters for synchrotron radiation sources. <i>Review of Scientific Instruments</i> , 1991, 62, 2540-2544.	1.3	46
40	Structural deformation behavior of isotactic polypropylene with different molecular characteristics during hot drawing process. <i>Polymer</i> , 2005, 46, 8846-8858.	3.8	46
41	Time-resolved x-ray diffraction studies on the intensity changes of the 5.9 and 5.1 nm actin layer lines from frog skeletal muscle during an isometric tetanus using synchrotron radiation. <i>Biophysical Journal</i> , 1985, 47, 847-850.	0.5	44
42	Structure and reactivity of aerosol-OT reversed micelles containing $\hat{\pm}$ -chymotrypsin. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1081-1089.	1.7	43
43	Pressure and temperature effects on the phase transition from a dense droplet to a lamellar structure in a ternary microemulsion. <i>Journal of Chemical Physics</i> , 2000, 112, 10608-10614.	3.0	43
44	Correction Method and Software for Image Distortion and Nonuniform Response in Charge-Coupled Device-Based X-ray Detectors Utilizing X-ray Image intensifier. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 8684-8691.	1.5	43
45	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
46	Spatial distribution of lamella structure in PCL/PVB band spherulite investigated with microbeam small- and wide-angle X-ray scattering. <i>Polymer</i> , 2003, 44, 6397-6405.	3.8	42
47	Fluctuations of lamellar structure prior to lamellar to gyroid transition in a nonionic surfactant system. <i>Physical Review E</i> , 2000, 62, 6865-6874.	2.1	41
48	Microbeam X-ray Diffraction Analysis of Interfacial Heterogeneous Nucleation of <i>n</i> -Hexadecane inside Oil-in-Water Emulsion Droplets. <i>Crystal Growth and Design</i> , 2008, 8, 3123-3126.	3.0	41
49	Effect of shot noise on X-ray speckle visibility spectroscopy. <i>Optics Express</i> , 2012, 20, 26878.	3.4	40
50	Pathways toward Photoinduced Alignment Switching in Liquid Crystalline Block Copolymer Films. <i>Macromolecules</i> , 2014, 47, 7178-7186.	4.8	40
51	Crystallinity and Cooperative Motions of Cyclic Molecules in Partially Threaded Solid-State Polyrotaxanes. <i>Macromolecules</i> , 2010, 43, 4660-4666.	4.8	37
52	pH-Dependent Unfolding of Aspergillopepsin II Studied by Small-Angle X-ray Scattering. <i>Biochemistry</i> , 2000, 39, 1364-1372.	2.5	36
53	X-ray energy dependence and uniformity of an imaging plate detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991, 310, 369-372.	1.6	35
54	Unfolding of dimeric creatine kinase in urea and guanidine hydrochloride as measured using small angle X-ray scattering with synchrotron radiation. <i>FEBS Letters</i> , 1997, 415, 183-185.	2.8	34

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55	X-ray double phase retarders to compensate for off-axis aberration. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 33-37.	2.4	34
56	Stopped-flow apparatus for X-ray scattering at subzero temperature. <i>Review of Scientific Instruments</i> , 1989, 60, 2356-2358.	1.3	33
57	Structural changes of silica particles in elongated rubber by two-dimensional small-angle X-ray scattering and extended reverse Monte Carlo analysis. <i>Rheologica Acta</i> , 2008, 47, 537-541.	2.4	33
58	Influence of Branch Incorporation into the Lamella Crystal on the Crystallization Behavior of Polyethylene with Precisely Spaced Branches. <i>Macromolecules</i> , 2013, 46, 4438-4446.	4.8	33
59	The intermediate filament structure of human hair. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1995, 1245, 392-396.	2.4	32
60	X-ray four-quadrant diamond phase-retarder system to compensate for off-axis and chromatic aberrations. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2002, 58, 146-154.	0.3	32
61	Effects of 2,3-butanedione monoxime on contraction of frog skeletal muscles: An X-ray diffraction study. <i>Journal of Muscle Research and Cell Motility</i> , 1992, 13, 153-160.	2.0	31
62	Simultaneous differential scanning calorimetry and time-resolved X-ray diffraction of lipid-water system. I. Relationship between chain melting and endothermic heat at the main transition of a dipalmitoylphosphatidylcholine-water system. <i>Chemistry and Physics of Lipids</i> , 1995, 76, 115-121.	3.2	31
63	Co-existing handednesses of lamella twisting in one spherulite observed with scanning microbeam wide-angle X-ray scattering. <i>Polymer</i> , 2004, 45, 8299-8302.	3.8	30
64	New Aspects for the Hierarchical Cooperative Motions in Photoalignment Process of Liquid Crystalline Block Copolymer Films. <i>Macromolecules</i> , 2015, 48, 2217-2223.	4.8	29
65	An X-ray spectrometer for Compton scattering experiments with synchrotron radiation. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1989, 275, 447-452.	1.6	28
66	Temperature dependence of the ripple structure in dimyristoylphosphatidylcholine studied by synchrotron X-ray small-angle diffraction. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1028, 103-109.	2.6	28
67	Equilibrium and Kinetics of the Allosteric Transition of GroEL Studied by Solution X-ray Scattering and Fluorescence Spectroscopy. <i>Journal of Molecular Biology</i> , 2003, 327, 183-191.	4.2	28
68	Synchrotron radiation small-angle x-ray scattering study on the deformation mechanisms of a toughened nylon-6/poly(phenylene ether) blend and high-impact polystyrene. <i>Macromolecules</i> , 1993, 26, 829-835.	4.8	27
69	Tunable X-ray polarization reflector with perfect crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1999, 55, 955-962.	0.3	27
70	Demonstration of X-ray linear dichroism imaging with hard X-rays. <i>Journal of Synchrotron Radiation</i> , 2000, 7, 368-373.	2.4	27
71	Anomalous Small-Angle X-ray Scattering Study of Structure of Polymer Micelles Having Bromines in Hydrophobic Core. <i>Macromolecules</i> , 2012, 45, 6150-6157.	4.8	27
72	X-ray Hanbury Brown-Twiss interferometry for determination of ultrashort electron-bunch duration. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	27

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73	Transmission-type X-ray linear polarizer with perfect crystals. <i>Journal of Synchrotron Radiation</i> , 1998, 5, 738-740.	2.4	26
74	Dependence of the swelling behavior of a pH-responsive PEG-modified nanogel on the cross-link density. <i>Polymer Journal</i> , 2012, 44, 240-244.	2.7	26
75	Time-resolved X-ray diffraction studies on the effect of slow length changes on tetanized frog skeletal muscle.. <i>Journal of Physiology</i> , 1988, 407, 231-241.	2.9	25
76	Kinetics of the Quaternary Structure Change of Aspartate Transcarbamylase Triggered by Succinate, a Competitive Inhibitor. <i>Biochemistry</i> , 1994, 33, 10007-10012.	2.5	25
77	Electrically induced reversible structural change of a highly swollen polymer gel network. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 473.	1.7	25
78	Application of Microbeam Small- and Wide-angle X-ray Scattering to Polymeric Material Characterization. <i>Polymer Journal</i> , 2007, 39, 1221-1237.	2.7	25
79	Composition Dependence of the Micellar Architecture Made from Poly(ethylene Terephthalate) and Poly(ethylene Glycol) Block Copolymer. <i>Journal of Applied Polymer Science</i> , 2012, 116, 8241-8250.	2.6	25
80	Helical and Expanded Conformation of Equine $\beta$ -Lactoglobulin in the Cold-denatured State. <i>Journal of Molecular Biology</i> , 2005, 350, 338-348.	4.2	24
81	Structural Analysis of Filler in Rubber Composite under Stretch with Time-Resolved Two-Dimensional Ultra-Small-Angle X-Ray Scattering. <i>Rubber Chemistry and Technology</i> , 2008, 81, 541-551.	1.2	24
82	Cross Nucleation in Polyethylene with Precisely Spaced Ethyl Branches. <i>ACS Macro Letters</i> , 2012, 1, 772-775.	4.8	24
83	X-Ray Photoacoustic Effect of Solid Materials. <i>Chemistry Letters</i> , 1987, 16, 973-976.	1.3	23
84	Simultaneous X-ray diffraction and differential scanning calorimetry in the study of phase transitions. <i>Thermochimica Acta</i> , 1995, 253, 149-154.	2.7	23
85	SATURATED AND UNSATURATED HYDRAULIC CONDUCTIVITY OF SWELLING CLAYS. <i>Soil Science</i> , 1986, 141, 1-6.	0.9	22
86	Temperature dependence of the structure of aggregates of tobacco mosaic virus protein at pH 7.2. <i>Journal of Molecular Biology</i> , 1988, 204, 129-140.	4.2	22
87	Structural kinetics of the allosteric transition of aspartate transcarbamylase produced by physiological substrates. <i>FEBS Letters</i> , 1990, 263, 66-68.	2.8	22
88	Dynamic photoinduced realignment processes in photoresponsive block copolymer films: effects of the chain length and block copolymer architecture. <i>Soft Matter</i> , 2015, 11, 5918-5925.	2.7	22
89	Time-Resolved SAXS Studies of a Sphere-Forming Block Copolymer under Large Oscillatory Shear Deformation. <i>Macromolecules</i> , 2000, 33, 9002-9014.	4.8	21
90	Intermediate filament structure of $\beta$ -keratin in baboon hair. <i>International Journal of Biological Macromolecules</i> , 1995, 17, 99-104.	7.5	20

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91	Grazing-incidence small-angle scattering measurement of Ge islands capped with a Si layer. <i>Applied Physics Letters</i> , 2002, 81, 2358-2360.	3.3	20
92	Denaturation and reassembly of chaperonin GroEL studied by solution X-ray scattering. <i>Protein Science</i> , 2003, 12, 672-680.	7.6	20
93	Dynamical structure change during reversion in Al <sub>i</sub> -Zn binary alloy. <i>Acta Metallurgica</i> , 1985, 33, 2199-2203.	2.1	19
94	Determination of structure and formation kinetics of early stage gp zones in an al-1.7 at.% Cu alloy by small-angle X-ray scattering of synchrotron radiation. <i>Acta Metallurgica</i> , 1988, 36, 1335-1341.	2.1	19
95	Structural analysis of single wool fibre by scanning microbeam SAXS. <i>Journal of Applied Crystallography</i> , 2005, 38, 420-425.	4.5	19
96	Microscopic structural evolution during the liquid-liquid transition in triphenyl phosphite. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 152101.	1.8	19
97	Microscopic deformation behavior of hard elastic polypropylene during cold-stretching process in fabrication of microporous membrane as revealed by synchrotron X-ray scattering. <i>Polymer</i> , 2015, 70, 215-221.	3.8	19
98	Growth and coarsening of g. p. Zones in Al- Zn alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1988, 19, 1973-1980.	1.4	18
99	Deformation behavior of banded spherulite during drawing investigated by simultaneous microbeam SAXS-WAXS and POM measurement. <i>Polymer</i> , 2010, 51, 222-231.	3.8	18
100	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
101	X-Ray Scattering Study on Hemoglobin Solution with Synchrotron Radiation : A Simple Analysis of Scattering Profile at Moderate Angles in Terms of Arrangement of Subunits. <i>Journal of Biochemistry</i> , 1986, 99, 1127-1136.	1.7	17
102	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
103	Conformational analysis of broken rodlike chains. 2. Conformational analysis of poly(D-glutamic) Tj ETQq1 1 0.784314 rgBT /Overlock	4.8	16
104	X-ray diffraction and electron microscopy from <i>Lethocerus</i> flight muscle partially relaxed by adenylylimidodiphosphate and ethylene glycol. <i>Journal of Molecular Biology</i> , 1990, 214, 129-141.	4.2	16
105	[16] X-Ray storage-phosphor imaging-plate detectors: High-sensitivity X-ray area detector. <i>Methods in Enzymology</i> , 1997, 276, 233-243.	1.0	16
106	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
107	PH-induced structure change of poly(vinyl alcohol) hydrogel crosslinked with poly(acrylic acid). <i>Angewandte Makromolekulare Chemie</i> , 1996, 240, 213-219.	0.2	15
108	Measurement of an electron-beam size with a beam profile monitor using Fresnel zone plates. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 506, 41-49.	1.6	15



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109	Directed Self-Assembly of Block Copolymers into Twin BCC-Sphere: Phase Transition Process from Aligned Hex-Cylinder to BCC-Sphere Induced by a Temperature Jump between the Two Equilibrium Phases. <i>Macromolecules</i> , 2013, 46, 2298-2316.	4.8	15
110	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
111	High-Resolution Compton Profile of Si Using 29.5 keV Synchrotron-Radiation X-Rays. <i>Journal of the Physical Society of Japan</i> , 1989, 58, 3270-3279.	1.6	14
112	The compactness of ribonuclease A and reduced ribonuclease A. <i>FEBS Letters</i> , 1998, 430, 275-277.	2.8	14
113	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
114	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
115	Time-resolved x-ray study of effect of sinusoidal length change on tetanized frog muscle. <i>Biophysical Journal</i> , 1986, 49, 581-584.	0.5	13
116	Kinetics of structure and activity changes during the allosteric transition of aspartate transcarbamylase. <i>Journal of Molecular Biology</i> , 1987, 198, 745-748.	4.2	13
117	Dynamical structure change during reversion above zone solvus in Al-Zn binary alloys. <i>Acta Metallurgica</i> , 1988, 36, 899-906.	2.1	13
118	Intermediate Filament Packing in Keratin of Echidna Quill. <i>Textile Research Journal</i> , 1998, 68, 167-170.	2.2	13
119	Observation of microscopic dynamics of carbon black in rubber during the vulcanization process. <i>Soft Matter</i> , 2012, 8, 3457.	2.7	13
120	Challenge to precise magnetic Compton profile measurements (invited). <i>Review of Scientific Instruments</i> , 1989, 60, 1666-1670.	1.3	12
121	X-ray evidence for the elongation of thin and thick filaments during isometric contraction of a molluscan smooth muscle. <i>Journal of Muscle Research and Cell Motility</i> , 1994, 15, 659-671.	2.0	12
122	Anomalous X-ray scattering from aqueous 2-butoxyethanol at XBE = 0.06 near freezing. <i>Chemical Physics Letters</i> , 1994, 228, 53-56.	2.6	12
123	Development of a high-resolution x-ray imaging system with a charge-coupled-device detector coupled with crystal x-ray magnifiers. <i>Review of Scientific Instruments</i> , 2000, 71, 4449.	1.3	12
124	Penetration of PBSU spherulite into P(VDC-VC) spherulite observed with microbeam- and macrobeam-SAXS/WAXS measurements. <i>Polymer</i> , 2004, 45, 8593-8601.	3.8	12
125	X-ray Photon Correlation Spectroscopy of Filler in Rubber. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L300-L302.	1.5	12
126	A 3 × 6 arrayed CCD X-ray detector for continuous rotation method in macromolecular crystallography. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 144-150.	2.4	12



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127	A system for kinetic X-ray diffraction using a position sensitive counter. Nuclear Instruments & Methods, 1978, 152, 199-203.	1.2	11
128	High-resolution Compton profile spectrometer for 29.5 keV x rays with a combination of crystal analyzer and imaging plate. Review of Scientific Instruments, 1989, 60, 2402-2405.	1.3	11
129	Application of an imaging plate to dose distribution measurement of proton beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 627-628.	1.6	11
130	Small-Angle X-ray Diffraction of Muscle Using Undulator Radiation from the Tristan Main Ring at KEK. Journal of Synchrotron Radiation, 1996, 3, 305-312.	2.4	11
131	Influence of Nucleotide Effectors on the Kinetics of the Quaternary Structure Transition of Allosteric Aspartate Transcarbamylase. Journal of Molecular Biology, 2005, 348, 195-204.	4.2	11
132	Techniques for Time-Resolved X-Ray Diffraction Using a Position Sensitive Counter. Japanese Journal of Applied Physics, 1976, 15, 2211-2219.	1.5	10
133	Dynamic Small-Angle X-ray Scattering System using an Imaging Plate. Journal of Synchrotron Radiation, 1996, 3, 225-230.	2.4	10
134	Time-resolved X-ray diffraction from frog skeletal muscle during an isotonic twitch under a small load.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1978, 54, 559-564.	3.8	9
135	Time-resolved X-ray diffraction studies of frog skeletal muscle isometrically twitched by two successive stimuli using synchrotron radiation. Biophysical Chemistry, 1986, 25, 161-168.	2.8	9
136	Synchrotron-radiation small-angle scattering measurements of the reversion process of $\text{Al}_2\text{Cu}$ precipitates in Al-8.1%Li binary alloy. Acta Metallurgica Et Materialia, 1993, 41, 1733-1738.	1.8	9
137	Effect of stretch and release on equatorial X-ray diffraction during a twitch contraction of frog skeletal muscle. Biophysical Journal, 1995, 68, 227-234.	0.5	9
138	Molecular structural changes in human fetal tissue during the early stages of embryogenesis. Biochimica Et Biophysica Acta - General Subjects, 1998, 1379, 282-288.	2.4	9
139	Nature of an Endothermic Peak of As-Quenched Al-11.8 mol%Li Alloys. Materials Transactions, JIM, 1998, 39, 62-68.	0.9	9
140	Macroscopically homogeneous deformation in injection molded polypropylene induced by annealing studied with microbeam X-ray scattering. Polymer, 2015, 70, 315-325.	3.8	9
141	A Real-Time Observation of X-ray Diffraction from Frog Skeletal Muscle during and after Slow Length Changes.. The Japanese Journal of Physiology, 1995, 45, 583-606.	0.9	9
142	Photoacoustic detector for synchrotron radiation research. Review of Scientific Instruments, 1989, 60, 2318-2320.	1.3	8
143	In-situ and simultaneous synchrotron-radiation small-angle and 100 scattering experiments on the low-temperature structure in as-quenched Al-Li alloy during heating. Scripta Materialia, 1997, 37, 1739-1744.	5.2	8
144	Simultaneous SAS and 100 Experiments on Phase Decomposition and Reversion in Al-Li Binary Alloys. Journal of Applied Crystallography, 1997, 30, 586-591.	4.5	8

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145	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
146	Compton profiles of aluminium and silicon. <i>Journal of Physics Condensed Matter</i> , 1989, 1, SA27-SA31.	1.8	7
147	Kinetic study on the dimer-tetramer interconversion of phosphorylase b by a stopped-flow X-ray scattering method. <i>Biophysical Chemistry</i> , 1989, 33, 153-160.	2.8	7
148	Study on the Phase Separation Process of Poly(methyl methacrylate)/Poly(styrene-co-acrylonitrile) Blend by SR-SAXS. <i>Polymer Journal</i> , 1991, 23, 1291-1296.	2.7	7
149	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
150	Two-stage temper embrittlement of amorphous Fe-B-Si alloys and structural changes examined by SR-small angle X-ray scattering. <i>Scripta Metallurgica</i> , 1989, 23, 1963-1968.	1.2	6
151	Dissociation of <i>Limulus polyphemus</i> (horseshoe crab) hemocyanin. <i>Biophysical Chemistry</i> , 1990, 38, 23-32.	2.8	6
152	Dynamic Investigation of the Solid-Solid Phase Transition of Normal-Alkane (Hexatriacontane) by Simultaneous Measurements with Differential Scanning Calorimetry, Small-Angle X-Ray Scattering and X-Ray Television Detector. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 5616-5622.	1.5	6
153	Partial Reversion of Small GP Zones in an Al-Zn Binary Alloy. <i>Journal of Applied Crystallography</i> , 1997, 30, 592-596.	4.5	6
154	Volume Phase Transitions of Slide-Ring Gels. <i>Polymers</i> , 2016, 8, 217.	4.5	6
155	Microscopic structural response of nanoparticles in styrene-butadiene rubber under cyclic uniaxial elongation. <i>Polymer Journal</i> , 2019, 51, 161-171.	2.7	6
156	X-Ray Diffraction and Flash Photolysis Studies of M Intermediate of Lattice-Contracted Purple Membrane. <i>Journal of Biochemistry</i> , 1990, 108, 938-946.	1.7	5
157	Two-Stage Embrittlement and Structural Changes by Tempering of Amorphous Fe-B-Si Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1990, 54, 362-371.	0.4	5
158	Time-resolved synchrotron X-ray diffraction studies of a single frog skeletal muscle fiber. <i>Biophysical Chemistry</i> , 1991, 39, 287-297.	2.8	5
159	Synchrotron radiation small-angle scattering study of the reversion process of Al-8.1at%Li binary alloy. <i>Scripta Metallurgica Et Materialia</i> , 1992, 27, 1425-1428.	1.0	5
160	The kinetics of conformational changes of $\beta$ -2-macroglobulin determined by time resolved X-ray solution scattering. <i>FEBS Letters</i> , 1994, 337, 171-174.	2.8	5
161	X-ray magnetic circular dichroism imaging with hard X-rays. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 1021-1026.	2.4	5
162	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

#	ARTICLE	IF	CITATIONS
163	X-ray diffraction of active frog skeletal muscle before and after a slow stretch.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1977, 53, 178-182.	3.8	4
164	Time-resolved X-ray diffraction from frog skeletal muscle during shortening against an inertial load and a quick release.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1980, 56, 235-240.	3.8	4
165	Dissociation and Auto-Oxidation of Hemerythrin Induced by SH-Modification: A Kinetic Study. Journal of Biochemistry, 1989, 105, 293-298.	1.7	4
166	Instrumentation for X-ray photoacoustic imaging and depth profiling. Review of Scientific Instruments, 1989, 60, 2468-2470.	1.3	4
167	Synchrotron Radiation Small-Angle Scattering Study on the Reversion Process of G.P. Zones below Miscibility Gap in Al&ndash;Zn Binary Alloys. Materials Transactions, JIM, 1989, 30, 886-894.	0.9	4
168	Two very long periodicities in collagen. BBA - Proteins and Proteomics, 1993, 1202, 305-308.	2.1	4
169	Structure changes in the sol-gel systems of hydrated oxides. Journal of Synchrotron Radiation, 1998, 5, 962-963.	2.4	4
170	Ti/Al multilayer zone plate and Bragg-Fresnel lens. Journal of Synchrotron Radiation, 1998, 5, 794-796.	2.4	4
171	Development of Extended Reverse Monte Carlo Method for Analysis of 2D-USAXS Experimental Data. AIP Conference Proceedings, 2006, , .	0.4	4
172	Strain-Phase-Resolved Dynamic SAXS Studies of BCC-Spherical Domains in Block Copolymers under LAOS: Creation of Twinned BCC-Sphere and Their Dynamic Response. Macromolecules, 2013, 46, 1549-1562.	4.8	4
173	Effect of finite spatial coherence length on small-angle scattering. Journal of Applied Crystallography, 2015, 48, 1660-1664.	4.5	4
174	Characterization of Polymer Micelles by the Combination of SAXS and FFF-MALS. Kobunshi Ronbunshu, 2012, 69, 346-357.	0.2	4
175	Microsegregated structure in the regenerated silk fibroin film from bombyx mori. Journal of Polymer Science, Part B: Polymer Physics, 1987, 25, 2567-2571.	2.1	3
176	X-ray diffraction study under pressure using an imaging plate (abstract). Review of Scientific Instruments, 1989, 60, 2437-2437.	1.3	3
177	High-Resolution X-ray Diffraction of Muscle Using Undulator Radiation from the Tristan Main Ring at KEK. Journal of Synchrotron Radiation, 1998, 5, 280-285.	2.4	3
178	The overlap between the thin- and thick-filament reflections in the small-angle X-ray diffraction pattern from a molluscan smooth muscle. Journal of Synchrotron Radiation, 1999, 6, 93-100.	2.4	3
179	The Use of the Time-Resolved X-Ray Solution Scattering for Studies of Globular Proteins. Spectroscopy, 2002, 16, 127-138.	0.8	3
180	Development of microstructural anisotropy during aging with deformation of Al-Ag alloys. Scripta Materialia, 2002, 46, 795-799.	5.2	3

#	ARTICLE	IF	CITATIONS
181	Kinetic studies of unfolding process of aspergillopepsin II by pH-jump methods. Biochemical and Biophysical Research Communications, 2003, 301, 745-750.	2.1	3
182	Feasibility Study on Anomalous Small-Angle X-ray Scattering near SulphurK-edge. Journal of Physics: Conference Series, 2010, 247, 012006.	0.4	3
183	Improvement of SAXS Measurement near the SulfurK-edge. Journal of Physics: Conference Series, 2011, 272, 012014.	0.4	3
184	Photo-switching Behavior of Microphase Separated Structure in Liquid Crystalline Azobenzene Block Copolymers Possessing Different Poly(alkyl methacrylate) Blocks. Molecular Crystals and Liquid Crystals, 2015, 617, 5-13.	0.9	3
185	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. Journal of Polymer Science Part A, 2017, 55, 3090-3096.	2.3	3
186	Synchrotron Radiation Small-Angle X-ray Scattering Study on Reversion Process of Al-Li Binary Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1993, 57, 1-6.	0.4	3
187	Rapid small-angle X-ray diffraction of a tonically contracting molluscan smooth muscle recorded with imaging plates. Journal of Applied Crystallography, 1989, 22, 72-74.	4.5	2
188	Size Distribution Analysis by a Scaling Method for Small-Angle Scattering Intensity. Materials Transactions, JIM, 1993, 34, 758-762.	0.9	2
189	Imaging based on hard x-ray magnetic linear dichroism by means of polarization switching. Physical Review B, 2002, 65, .	3.2	2
190	Atomic-Scale Structural Evolution upon Crystallite Nucleation and Growth in Amorphous Fe <sub>78</sub> B <sub>13</sub> Si <sub>9</sub> . Japanese Journal of Applied Physics, 2009, 48, 085505.	1.5	2
191	pH-Responsive Structural Change of PEGylated Amine-Bearing Nanogel Explored by Small Angle X-ray Scattering. Journal of Physics: Conference Series, 2011, 272, 012018.	0.4	2
192	A Dynamic Study of Crystallization of Poly(Îµ-caprolactone) and Poly(Îµ-caprolactone)/Poly(vinyl) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50 3	2.7	1
193	Early stage of phase decomposition in an Al-6.7 at% Zn alloy. Phase Transitions, 1987, 10, 277-288.	1.3	1
194	Object library for a new generation of experiment-controlling applications under the UNIX operating system. Journal of Synchrotron Radiation, 1998, 5, 593-595.	2.4	1
195	X-ray triple refraction and triple absorption in a cobalt-complex crystal. Journal of Synchrotron Radiation, 1998, 5, 1055-1057.	2.4	1
196	X-ray linear birefringence and linear dichroism in a cobalt crystal measured with a tunable X-ray polarimeter. Journal of Synchrotron Radiation, 1998, 5, 995-997.	2.4	1
197	Time-resolved two-dimensional small-angle scattering of Guinierâ€“Preston zones in Alâ€“Ag alloys under weak shear. Journal of Applied Crystallography, 2000, 33, 461-464.	4.5	1
198	Comparative study of the structure rearrangement in mixed and binary Zrâ€“Ti solâ€“xerogels. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 470, 232-235.	1.6	1

#	ARTICLE	IF	CITATIONS
199	An Electron-Beam Profile Monitor Using Fresnel Zone Plates. AIP Conference Proceedings, 2004, , .	0.4	1
200	Sinusoidal Length Change Study of Muscle Contraction and Self-Induced Translation Model of Myosin Motion. Springer Series in Biophysics, 1987, , 295-302.	0.4	1
201	Synchrotron Radiation Small-Angle X-ray Scattering Study on Reversion Process of G.P. Zones in Al-Zn Binary Alloys. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1988, 52, 375-382.	0.4	1
202	Shape Anisotropy of GP Zone in Early Decomposition Process of Al-Zn Binary Alloy. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1998, 62, 117-124.	0.4	1
203	Structure change of $\hat{\Gamma}'$ precipitates during heating at a constant rate in Al-Li binary alloys. European Physical Journal Special Topics, 1993, 03, C8-321-C8-324.	0.2	0
204	X-ray Diffraction Study of the Live Squid Retina. Journal of Molecular Biology, 1994, 238, 139-144.	4.2	0
205	Development and application of aberration-compensating x-ray phase retarder systems. , 2003, 5195, 76.		0
206	Electron-beam size measurement with a beam profile monitor using Fresnel zone plates. , 0, , .		0
207	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
208	Characterization of an x-ray diamond phase plate by a polarization analyzer using multiple diffraction. Journal of Physics: Conference Series, 2013, 425, 052030.	0.4	0
209	Micro Scale Distribution of Nanoparticles Studied with X-ray Near-Field Scattering. Kobunshi Ronbunshu, 2014, 71, 580-585.	0.2	0
210	Some features of the Structure Rearrangement in Mixed and Binary Zr-Ti Sol-xerogels. Physics Procedia, 2016, 84, 307-314.	1.2	0
211	Structural Inhomogeneity of Injection Molding Studied with Microbeam X-Ray Diffraction. Seikei-Kakou, 2013, 25, 506-511.	0.0	0
212	Time-resolved SAXS technique for studying block copolymers under shear deformation. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C484-C484.	0.3	0
213	Comparison of imaging-plate and CCD-based X-ray detectors for macromolecules. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C19-C20.	0.3	0
214	Study on Dielectric Anisotropies in Crystals by Using the Energy-Tunable X-Ray Polarimeter with a Phase Retarder.. Nihon Kessho Gakkaishi, 1998, 40, 341-354.	0.0	0