

Sol Gruner

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326
papers

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h-index

122
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342
ext. papers

18,604
ext. citations

6.4
avg, IF

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L-index

#	Paper	IF	Citations
326	Biomimetic Pathways for Assembling Inorganic Thin Films. <i>Science</i> , 1996 , 273, 892-8	33.3	676
325	High-resolution protein structure determination by serial femtosecond crystallography. <i>Science</i> , 2012 , 337, 362-4	33.3	641
324	The Gyroid: A New Equilibrium Morphology in Weakly Segregated Diblock Copolymers. <i>Macromolecules</i> , 1994 , 27, 4063-4075	5.5	610
323	Intrinsic curvature hypothesis for biomembrane lipid composition: a role for nonbilayer lipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 3665-9	11.5	546
322	Ordered mesoporous materials from metal nanoparticle-block copolymer self-assembly. <i>Science</i> , 2008 , 320, 1748-52	33.3	508
321	Mesophase structure-mechanical and ionic transport correlations in extended amphiphilic dendrons. <i>Science</i> , 2004 , 305, 1598-601	33.3	356
320	Stability of lyotropic phases with curved interfaces. <i>The Journal of Physical Chemistry</i> , 1989 , 93, 7562-7570		344
319	Membrane curvature, lipid segregation, and structural transitions for phospholipids under dual-solvent stress. <i>Biochemistry</i> , 1990 , 29, 76-87	3.2	279
318	Electron ptychography of 2D materials to deep sub-ångström resolution. <i>Nature</i> , 2018 , 559, 343-349	50.4	269
317	X-ray diffraction study of the polymorphic behavior of N-methylated dioleoylphosphatidylethanolamine. <i>Biochemistry</i> , 1988 , 27, 2853-66	3.2	265
316	Compactness of the denatured state of a fast-folding protein measured by submillisecond small-angle x-ray scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 10115-7	11.5	256
315	Lipid polymorphism: the molecular basis of nonbilayer phases. <i>Annual Review of Biophysics and Biophysical Chemistry</i> , 1985 , 14, 211-38		242
314	Probability of alamethicin conductance states varies with nonlamellar tendency of bilayer phospholipids. <i>Biophysical Journal</i> , 1993 , 65, 23-7	2.9	241
313	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 237-49	0.5	222
312	Hierarchical porous polymer scaffolds from block copolymers. <i>Science</i> , 2013 , 341, 530-4	33.3	214
311	A thermodynamic model of the lamellar to inverse hexagonal phase transition of lipid membrane-water systems. <i>Biochemistry</i> , 1984 , 23, 1093-1102	3.2	211
310	Doxorubicin physical state in solution and inside liposomes loaded via a pH gradient. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1998 , 1415, 23-40	3.8	202

309	Geometrical aspects of the frustration in the cubic phases of lyotropic liquid crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 5364-8	11.5	197
308	Charge-coupled device area x-ray detectors. <i>Review of Scientific Instruments</i> , 2002 , 73, 2815-2842	1.7	192
307	Rapid compaction during RNA folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4266-71	11.5	190
306	Unusual lipid structures selectively reduce the toxicity of amphotericin B. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988 , 85, 6122-6	11.5	185
305	Entrapment of carbon dioxide in the active site of carbonic anhydrase II. <i>Journal of Biological Chemistry</i> , 2008 , 283, 30766-71	5.4	181
304	Nonbilayer phases of membrane lipids. <i>Chemistry and Physics of Lipids</i> , 1991 , 57, 147-64	3.7	180
303	Phase Behavior of Pure Diblocks and Binary Diblock Blends of Poly(ethylene)Poly(ethylethylene). <i>Macromolecules</i> , 1996 , 29, 1204-1215	5.5	169
302	Cooperative water filling of a nonpolar protein cavity observed by high-pressure crystallography and simulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 16668-71	11.5	168
301	Capsaicin regulates voltage-dependent sodium channels by altering lipid bilayer elasticity. <i>Molecular Pharmacology</i> , 2005 , 68, 680-9	4.3	168
300	Phase Behavior of PolystyrenePoly(2-vinylpyridine) Diblock Copolymers. <i>Macromolecules</i> , 1996 , 29, 2857-2867	5.5	167
299	Novel multilayered lipid vesicles: comparison of physical characteristics of multilamellar liposomes and stable plurilamellar vesicles. <i>Biochemistry</i> , 1985 , 24, 2833-42	3.2	158
298	Energetics of a hexagonal-lamellar-hexagonal-phase transition sequence in dioleoylphosphatidylethanolamine membranes. <i>Biochemistry</i> , 1992 , 31, 2856-64	3.2	146
297	Time resolved collapse of a folding protein observed with small angle x-ray scattering. <i>Physical Review Letters</i> , 2001 , 86, 4962-5	7.4	144
296	Observation of a reversible thermotropic order-order transition in a diblock copolymer. <i>Macromolecules</i> , 1994 , 27, 490-501	5.5	139
295	Multicompart ment mesoporous silica nanoparticles with branched shapes: an epitaxial growth mechanism. <i>Science</i> , 2013 , 340, 337-41	33.3	132
294	Observation of inverted cubic phase in hydrated dioleoylphosphatidylethanolamine membranes. <i>Biochemistry</i> , 1988 , 27, 2332-6	3.2	130
293	Nonlamellar phases induced by the interaction of gramicidin S with lipid bilayers. A possible relationship to membrane-disrupting activity. <i>Biochemistry</i> , 1997 , 36, 7906-16	3.2	128
292	Formation of a Silicate L3 Phase with Continuously Adjustable Pore Sizes. <i>Science</i> , 1997 , 277, 552-556	33.3	128

291	Lipid polymorphism of mixtures of dioleoylphosphatidylethanolamine and saturated and monounsaturated phosphatidylcholines of various chain lengths. <i>Biochemistry</i> , 1987 , 26, 231-6	3.2	128
290	A short, strong hydrogen bond in the active site of human carbonic anhydrase II. <i>Biochemistry</i> , 2010 , 49, 249-51	3.2	123
289	X-ray diffraction reconstruction of the inverted hexagonal (HII) phase in lipid-water systems. <i>Biochemistry</i> , 1992 , 31, 1340-55	3.2	123
288	Temperature dependence of the structural dimensions of the inverted hexagonal (HII) phase of phosphatidylethanolamine-containing membranes. <i>Biochemistry</i> , 1989 , 28, 4245-53	3.2	123
287	Phase Behavior of Ordered Diblock Copolymer Blends: Effect of Compositional Heterogeneity. <i>Macromolecules</i> , 1996 , 29, 4494-4507	5.5	122
286	Probing substates in sperm whale myoglobin using high-pressure crystallography. <i>Structure</i> , 2002 , 10, 51-60	5.2	121
285	A Reevaluation of Bicontinuous Cubic Phases in Starblock Copolymers. <i>Macromolecules</i> , 1995 , 28, 2570-2573	5.3	117
284	Effect of fatty acyl chain length and structure on the lamellar gel to liquid-crystalline and lamellar to reversed hexagonal phase transitions of aqueous phosphatidylethanolamine dispersions. <i>Biochemistry</i> , 1989 , 28, 541-8	3.2	111
283	The plumber's nightmare: a new morphology in block copolymer-ceramic nanocomposites and mesoporous aluminosilicates. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13084-93	16.4	110
282	X-ray imaging of shock waves generated by high-pressure fuel sprays. <i>Science</i> , 2002 , 295, 1261-3	33.3	110
281	X-ray diffraction structures of some phosphatidylethanolamine lamellar and inverted hexagonal phases. <i>Biophysical Journal</i> , 2001 , 81, 2693-706	2.9	109
280	Highly aminated mesoporous silica nanoparticles with cubic pore structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 172-5	16.4	105
279	Development of confocal X-ray fluorescence (XRF) microscopy at the Cornell high energy synchrotron source. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 235-238	2.6	104
278	Energy recovery linacs as synchrotron radiation sources (invited). <i>Review of Scientific Instruments</i> , 2002 , 73, 1402-1406	1.7	99
277	Pixel array detector for X-ray free electron laser experiments. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011 , 649, 67-69	1.2	96
276	Titanium Dioxide Surfactant Mesophases and Ti-TMS1. <i>Chemistry of Materials</i> , 1997 , 9, 2690-2693	9.6	96
275	Gating of an organic transistor through a bilayer lipid membrane with ion channels. <i>Applied Physics Letters</i> , 2006 , 89, 053505	3.4	93
274	Additive-Driven Phase-Selective Chemistry in Block Copolymer Thin Films: The Convergence of TopDown and BottomUp Approaches. <i>Advanced Materials</i> , 2004 , 16, 953-957	24	93

273	Polymerization of Nonlamellar Lipid Assemblies. <i>Journal of the American Chemical Society</i> , 1995 , 117, 5573-5578	16.4	92
272	Directly measured deformation energy of phospholipid HII hexagonal phases. <i>Faraday Discussions of the Chemical Society</i> , 1986 , 29-37		92
271	High-pressure cooling of protein crystals without cryoprotectants. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005 , 61, 881-90		91
270	Phase transformations during rapid heating of Al/Ni multilayer foils. <i>Applied Physics Letters</i> , 2008 , 93, 081903	3.4	89
269	Cation-dependent segregation phenomena and phase behavior in model membrane systems containing phosphatidylserine: influence of cholesterol and acyl chain composition. <i>Biochemistry</i> , 1984 , 23, 2696-703	3.2	85
268	Microstructural Analysis of a Cubic Bicontinuous Morphology in a Neat SIS Triblock Copolymer. <i>Macromolecules</i> , 1997 , 30, 3938-3941	5.5	84
267	Room-temperature serial crystallography using a kinetically optimized microfluidic device for protein crystallization and on-chip X-ray diffraction. <i>IUCrJ</i> , 2014 , 1, 349-60	4.7	82
266	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016 , 2, e1501119	14.3	81
265	Small concentrations of alamethicin induce a cubic phase in bulk phosphatidylethanolamine mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996 , 1278, 241-6	3.8	81
264	Perpendicular Deformation of a Near-Single-Crystal Triblock Copolymer with a Cylindrical Morphology. 1. Synchrotron SAXS. <i>Macromolecules</i> , 2000 , 33, 9395-9406	5.5	79
263	Is the mechanism of general anesthesia related to lipid membrane spontaneous curvature?. <i>Annals of the New York Academy of Sciences</i> , 1991 , 625, 685-97	6.5	79
262	Time-resolved x-ray microdiffraction studies of phase transformations during rapidly propagating reactions in Al/Ni and Zr/Ni multilayer foils. <i>Journal of Applied Physics</i> , 2010 , 107, 113511	2.5	77
261	Metal Oxide Containing Mesoporous Silica with Bicontinuous "Plumber's Nightmare" Morphology from a Block Copolymer-Hybrid Mesophase This work was supported by the National Science Foundation (DMR-0072009), the Cornell Center for Materials Research (NSF DMR-9632275), and the Department of Energy (DE-FG02-97ER62443). We also acknowledge very helpful discussions	16.4	76
260	Quantitative analysis of highly transient fuel sprays by time-resolved x-radiography. <i>Applied Physics Letters</i> , 2003 , 83, 1671-1673	3.4	73
259	The RCK domain of the KtrAB K ⁺ transporter: multiple conformations of an octameric ring. <i>Cell</i> , 2006 , 126, 1147-59	56.2	72
258	A Large-Format High-Resolution Area X-ray Detector Based on a Fiber-Optically Bonded Charge-Coupled Device (CCD). <i>Journal of Applied Crystallography</i> , 1995 , 28, 196-205	3.8	72
257	Polymerization of the Inverted Hexagonal Phase. <i>Journal of the American Chemical Society</i> , 1997 , 119, 4866-4873	16.4	71
256	High-Pressure Effects on the OrderDisorder Transition in Block Copolymer Melts. <i>Macromolecules</i> , 1996 , 29, 1473-1481	5.5	70

255	Structure of a pseudokinase-domain switch that controls oncogenic activation of Jak kinases. <i>Nature Structural and Molecular Biology</i> , 2013 , 20, 1221-3	17.6	69
254	Role of lipid polymorphism in pulmonary surfactant. <i>Science</i> , 1996 , 273, 330-2	33.3	67
253	Time-resolved x-ray diffraction of biological materials. <i>Science</i> , 1987 , 238, 305-12	33.3	66
252	Ordered mesoporous silica nanoparticles with and without embedded iron oxide nanoparticles: structure evolution during synthesis. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7807		65
251	Energy recovery linac (ERL) coherent hard x-ray sources. <i>New Journal of Physics</i> , 2010 , 12, 035011	2.9	63
250	Evidence for liquid water during the high-density to low-density amorphous ice transition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 4596-600	11.5	63
249	Structural study of the inverted cubic phases of di-dodecyl alkyl- β -D-glucopyranosyl- α -glycerol. <i>Journal De Physique II</i> , 1992 , 2, 2039-2063		63
248	Alteration of citrine structure by hydrostatic pressure explains the accompanying spectral shift. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 13362-6	11.5	62
247	Comparison of the Lamellar Morphology of Microphase-Separated Cyclic Block Copolymers and Their Linear Precursors. <i>Macromolecules</i> , 1995 , 28, 3485-3489	5.5	62
246	Ordered three- and five-ply nanocomposites from ABC block terpolymer microphase separation with niobia and aluminosilicate sols. <i>Chemistry of Materials</i> , 2009 , 21, 5466-5473	9.6	58
245	Structural rigidity of a large cavity-containing protein revealed by high-pressure crystallography. <i>Journal of Molecular Biology</i> , 2007 , 367, 752-63	6.5	58
244	Nanohybrids from liquid crystalline extended amphiphilic dendrimers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 4070-1	16.4	58
243	Morphology Diagram of a Diblock Copolymer/Aluminosilicate Nanoparticle System. <i>Chemistry of Materials</i> , 2009 , 21, 5397-5405	9.6	57
242	Integrating structure control over multiple length scales in porous high temperature ceramics with functional platinum nanoparticles. <i>Nano Letters</i> , 2009 , 9, 2756-62	11.5	56
241	Direct access to bicontinuous skeletal inorganic plumber's nightmare networks from block copolymers. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 1226-9	16.4	55
240	Structural and thermodynamic characterization of T4 lysozyme mutants and the contribution of internal cavities to pressure denaturation. <i>Biochemistry</i> , 2008 , 47, 11097-109	3.2	53
239	Shear-Stabilized Bi-axial Texture and Lamellar Contraction in both Diblock Copolymer and Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 1996 , 29, 1482-1489	5.5	53
238	Orientation of triblock copolymers in planar extension. <i>Polymer Engineering and Science</i> , 1996 , 36, 1414-1424	14.24	53

237	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 3895-3905	9.6	52
236	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2012 , 22, 1078-1087		52
235	On the validity of ³¹ P-NMR determinations of phospholipid polymorphic phase behaviour. <i>Chemistry and Physics of Lipids</i> , 1986 , 40, 47-56	3.7	52
234	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014 , 5, 3247	17.4	51
233	Correlation between lipid plane curvature and lipid chain order. <i>Biophysical Journal</i> , 1996 , 70, 2747-57	2.9	50
232	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. <i>Nano Letters</i> , 2018 , 18, 3746-3751	11.5	50
231	Synthesis and Self-Assembly of Amphiphilic Dendrimers Based on Aliphatic Polyether-Type Dendritic Cores. <i>Macromolecules</i> , 2004 , 37, 4227-4234	5.5	49
230	Calibration procedures for charge-coupled device x-ray detectors. <i>Review of Scientific Instruments</i> , 1999 , 70, 2927-2934	1.7	49
229	Curvature dependent induction of the interdigitated gel phase in DPPC vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993 , 1146, 247-57	3.8	49
228	Pressure-induced topological phase transitions in membranes. <i>Physical Review Letters</i> , 1993 , 70, 3455-3458	4.5	49
227	High sensitivity image intensifier-TV detector for x-ray diffraction studies. <i>Review of Scientific Instruments</i> , 1978 , 49, 1241	1.7	49
226	Diastereoselective alkylation of beta-amino esters: structural and rate studies reveal alkylations of hexameric lithium enolates. <i>Journal of the American Chemical Society</i> , 2004 , 126, 16559-68	16.4	48
225	High-pressure protein crystallography and NMR to explore protein conformations. <i>Annual Review of Biophysics</i> , 2011 , 40, 81-98	21.1	47
224	Metal Nanoparticle/Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009 , 21, 5578-5584	9.6	46
223	Determination of L(alpha)-H(II) phase transition temperature for 1,2-dioleoyl-sn-glycero-3-phosphatidylethanolamine. <i>Biophysical Journal</i> , 2002 , 82, 2504-10	2.9	46
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221	Three-dimensional diffuse x-ray scattering from crystals of Staphylococcal nuclease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 6180-4	11.5	45
220	X-ray diffraction and electron microscope study of phase separation in rod outer segment photoreceptor membrane multilayers. <i>Biophysical Journal</i> , 1982 , 39, 241-51	2.9	44

219	Surface Induced Tilt Propagation in Thin Films of Semifluorinated Liquid Crystalline Side Chain Block Copolymers. <i>Macromolecules</i> , 2007 , 40, 81-89	5.5	42
218	Studies of the thermotropic phase behavior of phosphatidylcholines containing 2-alkyl substituted fatty acyl chains: a new class of phosphatidylcholines forming inverted nonlamellar phases. <i>Biophysical Journal</i> , 1994 , 66, 1088-103	2.9	42
217	Kinetics of the lamellar-inverse hexagonal phase transition determined by time-resolved X-ray diffraction. <i>Biochemistry</i> , 1992 , 31, 1081-92	3.2	42
216	Graphene as a protein crystal mounting material to reduce background scatter. <i>Journal of Applied Crystallography</i> , 2013 , 46, 1501-1507	3.8	41
215	Coupling format variations in x-ray detectors based on charge coupled devices. <i>Review of Scientific Instruments</i> , 1997 , 68, 47-54	1.7	41
214	A Re-Evaluation of the Morphology of a Bicontinuous Block Copolymer/Ceramic Material. <i>Macromolecules</i> , 2007 , 40, 8974-8982	5.5	41
213	Imaging density disturbances in water with a 41.3-attosecond time resolution. <i>Physical Review Letters</i> , 2004 , 92, 237401	7.4	41
212	CCD and vidicon x-ray detectors: Theory and practice (invited). <i>Review of Scientific Instruments</i> , 1989 , 60, 1545-1551	1.7	41
211	Monolithic gyroidal mesoporous mixed titanium-niobium nitrides. <i>ACS Nano</i> , 2014 , 8, 8217-23	16.7	40
210	Distribution of decane within the unit cell of the inverted hexagonal (HII) phase of lipid-water-decane systems determined by neutron diffraction. <i>Biochemistry</i> , 1992 , 31, 1356-63	3.2	40
209	High hydrostatic pressure small-angle X-ray scattering cell for protein solution studies featuring diamond windows and disposable sample cells. <i>Journal of Applied Crystallography</i> , 2008 , 41, 167-175	3.8	39
208	Multilayer X-ray optics at CHESS. <i>Journal of Synchrotron Radiation</i> , 2006 , 13, 204-10	2.4	39
207	Synthesis and Characterization of Amphiphilic Poly(ethylene oxide)-block-poly(hexyl methacrylate) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2003 , 204, 1047-1055	2.6	39
206	Tests of a prototype pixel array detector for microsecond time-resolved X-ray diffraction. <i>Journal of Synchrotron Radiation</i> , 1999 , 6, 1096-1105	2.4	39
205	Microfabrication cellular phosphors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1989 , 7, 1832		39
204	X-ray tests of a Pixel Array Detector for coherent x-ray imaging at the Linac Coherent Light Source. <i>Journal of Instrumentation</i> , 2009 , 4, P03001-P03001	1	38
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202	The physical properties of glycosyl diacylglycerols. Calorimetric, X-ray diffraction and Fourier transform spectroscopic studies of a homologous series of 1,2-di-O-acyl-3-O-(beta-D-galactopyranosyl)-sn-glycerols. <i>Chemistry and Physics of Lipids</i> , 2001 , 111, 139-61	3.7	37

201	Freezing and melting water in lamellar structures. <i>Biophysical Journal</i> , 1994 , 67, 706-12	2.9	37
200	High-Pressure Effects on the Disordered Phase of Block Copolymer Melts. <i>Macromolecules</i> , 1995 , 28, 7148-7156	5.5	36
199	Silica Gels with Tunable Nanopores through Templating of the L3 Phase. <i>Langmuir</i> , 2000 , 16, 398-406	4	35
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197	Calcium-induced phase separation phenomena in multicomponent unsaturated lipid mixtures. <i>Biochemistry</i> , 1988 , 27, 1415-20	3.2	35
196	A Medium-Format, Mixed-Mode Pixel Array Detector for Kilohertz X-ray Imaging. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 062004	0.3	34
195	Evaluation of Area Photon Detectors by a Method Based on Detective Quantum Efficiency (DQE). <i>IEEE Transactions on Nuclear Science</i> , 1978 , 25, 562-565	1.7	34
194	High-speed in situ X-ray scattering of carbon nanotube film nucleation and self-organization. <i>ACS Nano</i> , 2012 , 6, 5091-101	16.7	33
193	Solving structure with sparse, randomly-oriented x-ray data. <i>Optics Express</i> , 2012 , 20, 13129-37	3.3	33
192	Effect of Filler Dimensionality on the OrderDisorder Transition of a Model Block Copolymer Nanocomposite. <i>Macromolecules</i> , 2002 , 35, 4862-4865	5.5	33
191	Enigmatic thermotropic phase behavior of highly asymmetric mixed-chain phosphatidylcholines that form mixed-interdigitated gel phases. <i>Biophysical Journal</i> , 1994 , 66, 207-16	2.9	33
190	. <i>IEEE Transactions on Nuclear Science</i> , 1991 , 38, 110-118	1.7	33
189	Slow-scan silicon-intensified target-TV x-ray detector for quantitative recording of weak x-ray images. <i>Review of Scientific Instruments</i> , 1982 , 53, 1770-1778	1.7	32
188	Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11478-11492	13	31
187	Characterization of a prototype pixel array detector (PAD) for use in microsecond framing time-resolved X-ray diffraction studies. <i>IEEE Transactions on Nuclear Science</i> , 1997 , 44, 950-956	1.7	31
186	Hexagonally Patterned Lamellar Morphology in ABC Triblock Copolymer/Aluminosilicate Nanocomposites. <i>Chemistry of Materials</i> , 2008 , 20, 3278-3287	9.6	30
185	Experimental 3D coherent diffractive imaging from photon-sparse random projections. <i>IUCrJ</i> , 2019 , 6, 357-365	4.7	30
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183	A high-pressure cryocooling method for protein crystals and biological samples with reduced background X-ray scatter. <i>Journal of Applied Crystallography</i> , 2013 , 46, 234-241	3.8	28
182	Time-resolved x-ray diffraction techniques for bulk polycrystalline materials under dynamic loading. <i>Review of Scientific Instruments</i> , 2014 , 85, 093901	1.7	28
181	Coupling of pressure-induced structural shifts to spectral changes in a yellow fluorescent protein. <i>Biophysical Journal</i> , 2009 , 97, 1719-27	2.9	28
180	Three-Component Porous Carbon/Titania Nanocomposites through Self-Assembly of ABCBA Block Terpolymers with Titania Sols. <i>Macromolecules</i> , 2009 , 42, 6682-6687	5.5	28
179	The thermotropic phase behaviour and phase structure of a homologous series of racemic beta-D-galactosyl dialkylglycerols studied by differential scanning calorimetry and X-ray diffraction. <i>Chemistry and Physics of Lipids</i> , 2007 , 148, 26-50	3.7	28
178	Format alterations in CCD based electro-optic X-ray detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1986 , 246, 527-533	1.2	28
177	High Dynamic Range X-Ray Detector Pixel Architectures Utilizing Charge Removal. <i>IEEE Transactions on Nuclear Science</i> , 2017 , 64, 1101-1107	1.7	27
176	Four dimensional visualization of highly transient fuel sprays by microsecond quantitative x-ray tomography. <i>Applied Physics Letters</i> , 2009 , 94, 084101	3.4	27
175	Self-Assembly of Four-Layer Woodpile Structure from Zigzag ABC Copolymer/Aluminosilicate Concertinas. <i>Macromolecules</i> , 2008 , 41, 852-859	5.5	27
174	Survey of two-dimensional electro-optical X-ray detectors. <i>Nuclear Instruments & Methods in Physics Research</i> , 1982 , 195, 287-297		27
173	High-dynamic-range coherent diffractive imaging: ptychography using the mixed-mode pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2014 , 21, 1167-74	2.4	26
172	Interaction between supersonic disintegrating liquid jets and their shock waves. <i>Physical Review Letters</i> , 2009 , 102, 074501	7.4	26
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