

Sol Gruner

List of Publications by Year in descending order

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335
papers

20,031
citations

11235

73
h-index

15253

130
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342
all docs

342
docs citations

342
times ranked

18030
citing authors

#	ARTICLE	IF	CITATIONS
1	Very-High Dynamic Range, 10,000 Frames/Second Pixel Array Detector for Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2022, 28, 425-440.	0.2	21
2	High-pressure small-angle X-ray scattering cell for biological solutions and soft materials. <i>Journal of Applied Crystallography</i> , 2021, 54, 111-122.	1.9	23
3	Piezomagnetic switching and complex phase equilibria in uranium dioxide. <i>Communications Materials</i> , 2021, 2, .	2.9	9
4	Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates. <i>Advanced Functional Materials</i> , 2021, 31, 2100469.	7.8	7
5	Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science. <i>Advanced Materials</i> , 2021, 33, e2006975.	11.1	9
6	Superconducting Quantum Metamaterials: Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates (Adv. Funct. Mater. 23/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170166.	7.8	0
7	Mesoporous Superconductors: Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science (Adv. Mater. 26/2021). <i>Advanced Materials</i> , 2021, 33, 2170203.	11.1	0
8	Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 34732-34741.	4.0	4
9	Wide Dynamic Range, 10 kHz Framing Detector for 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021, 27, 992-993.	0.2	2
10	Characterization of a Small-Scale Prototype Detector With Wide Dynamic Range for Time-Resolved High-Energy X-Ray Applications. <i>IEEE Transactions on Nuclear Science</i> , 2021, , 1-1.	1.2	2
11	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications. , 2020, , 1225-1255.		4
12	The MM-PAD-2.1: A Wide-Dynamic-Range Detector For High-Energy X-ray Imaging. , 2020, , .		1
13	Phase Imaging beyond the Diffraction Limit with Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019, 25, 6-7.	0.2	1
14	Preparation of Macroscopic Block-Copolymer-Based Gyroidal Mesoscale Single Crystals by Solvent Evaporation. <i>Advanced Materials</i> , 2019, 31, e1902565.	11.1	18
15	Low-noise, low-power, event-driven read-out of counting Pixel Array Detectors. , 2019, , .		0
16	Intermittent plasticity in individual grains: A study using high energy x-ray diffraction. <i>Structural Dynamics</i> , 2019, 6, 014501.	0.9	19
17	Characterization of a Fast-Framing X-Ray Camera With Wide Dynamic Range for High-Energy Imaging. , 2019, , .		2
18	Fixed-target serial oscillation crystallography at room temperature. <i>IUCr</i> , 2019, 6, 305-316.	1.0	26

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19	Experimental 3D coherent diffractive imaging from photon-sparse random projections. IUCr, 2019, 6, 357-365.	1.0	37
20	10.1063/1.5068756.1., 2019, , .		0
21	Mechanisms of oxide growth during the combustion of Al:Zr nanolaminate foils. Combustion and Flame, 2018, 191, 442-452.	2.8	9
22	In Situ Time-Resolved Measurements of Extension Twinning During Dynamic Compression of Polycrystalline Magnesium. Journal of Dynamic Behavior of Materials, 2018, 4, 222-230.	1.1	9
23	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. Microscopy and Microanalysis, 2018, 24, 194-195.	0.2	0
24	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. Microscopy and Microanalysis, 2018, 24, 1588-1589.	0.2	0
25	Development of a Fast-Framing X-Ray Camera With Wide Dynamic Range for High-Energy Imaging. , 2018, , .		4
26	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. Nano Letters, 2018, 18, 3746-3751.	4.5	82
27	Electron ptychography of 2D materials to deep sub-Ångström resolution. Nature, 2018, 559, 343-349.	13.7	431
28	Mapping Polarity, Toroidal Order, and the Local Energy Landscape by 4D-STEM. Microscopy and Microanalysis, 2018, 24, 176-177.	0.2	2
29	The consequences of cavity creation on the folding landscape of a repeat protein depend upon context. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8153-E8161.	3.3	17
30	Solving protein structure from sparse serial microcrystal diffraction data at a storage-ring synchrotron source. IUCr, 2018, 5, 548-558.	1.0	13
31	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications. , 2018, , 1-31.		1
32	High Dynamic Range X-Ray Detector Pixel Architectures Utilizing Charge Removal. IEEE Transactions on Nuclear Science, 2017, 64, 1101-1107.	1.2	37
33	Discovering Synthesis Routes to Hexagonally Ordered Mesoporous Niobium Nitrides Using Pluronic/Pluronic Block Copolymers. Chemistry of Materials, 2017, 29, 8973-8977.	3.2	12
34	Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. Microscopy and Microanalysis, 2017, 23, 444-445.	0.2	2
35	X-ray reflectivity measurement of interdiffusion in metallic multilayers during rapid heating. Journal of Synchrotron Radiation, 2017, 24, 796-801.	1.0	15
36	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). Microscopy and Microanalysis, 2017, 23, 1712-1713.	0.2	1

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37	Reconstructing three-dimensional protein crystal intensities from sparse unoriented two-axis X-ray diffraction patterns. <i>Journal of Applied Crystallography</i> , 2017, 50, 985-993.	1.9	5
38	Measuring Orbital Angular Momentum (OAM) and Torque Transfer from Polarization Vortices with the Electron Microscopy Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2017, 23, 1634-1635.	0.2	1
39	The high dynamic range pixel array detector (HDR-PAD): Concept and design. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	3
40	Potential beneficial effects of electron-hole plasmas created in silicon sensors by XFEL-like high intensity pulses for detector development. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	2
41	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. <i>Microscopy and Microanalysis</i> , 2016, 22, 1718-1719.	0.2	3
42	High-speed x-ray imaging with the Keck pixel array detector (Keck PAD) for time-resolved experiments at synchrotron sources. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	4
43	Reduction of lattice disorder in protein crystals by high-pressure cryocooling. <i>Journal of Applied Crystallography</i> , 2016, 49, 149-157.	1.9	22
44	High-speed imaging at high x-ray energy: CdTe sensors coupled to charge-integrating pixel array detectors. <i>AIP Conference Proceedings</i> , 2016, , .	0.3	1
45	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 237-249.	0.2	334
46	Tracking solvent and protein movement during CO ₂ release in carbonic anhydrase II crystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5257-5262.	3.3	30
47	Protein crystal structure from non-oriented, single-axis sparse X-ray data. <i>IUCr</i> , 2016, 3, 43-50.	1.0	6
48	An Electron Microscope Pixel Array Detector as a Universal STEM Detector. <i>Microscopy and Microanalysis</i> , 2016, 22, 478-479.	0.2	6
49	Electron Diffraction from a Single Atom and Optimal Signal Detection. <i>Microscopy and Microanalysis</i> , 2016, 22, 846-847.	0.2	3
50	Reconstruction of Polarization Vortices by Diffraction Mapping of Ferroelectric PbTiO ₃ / SrTiO ₃ Superlattice Using a High Dynamic Range Pixelated Detector. <i>Microscopy and Microanalysis</i> , 2016, 22, 472-473.	0.2	7
51	Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. <i>Chemistry of Materials</i> , 2016, 28, 838-847.	3.2	12
52	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016, 2, e1501119.	4.7	104
53	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. <i>Nano Letters</i> , 2016, 16, 651-655.	4.5	26
54	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications. , 2016, , 1029-1054.		3

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55	High-speed X-ray imaging pixel array detector for synchrotron bunch isolation. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 395-403.	1.0	19
56	Determination of crystallographic intensities from sparse data. <i>IUCrJ</i> , 2015, 2, 29-34.	1.0	21
57	Lorentz-STEM imaging of Fields and Domains using a High-Speed, High-Dynamic Range Pixel Array Detector at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2015, 21, 2309-2310.	0.2	1
58	A High Frame Rate Hybrid X-Ray Image Sensor. <i>IEEE Sensors Journal</i> , 2015, 15, 1523-1531.	2.4	2
59	Biostructural Science Inspired by Next-Generation X-Ray Sources. <i>Annual Review of Biophysics</i> , 2015, 44, 33-51.	4.5	25
60	Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymer- <i>n</i> -butanol- <i>o</i> -alumina sols. <i>RSC Advances</i> , 2015, 5, 49287-49294.	1.7	13
61	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.	5.2	35
62	Glass-to-cryogenic-liquid transitions in aqueous solutions suggested by crack healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11765-11770.	3.3	10
63	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications. , 2015, , 1-24.		11
64	Real-Space x-ray tomographic reconstruction of randomly oriented objects with sparse data frames. <i>Optics Express</i> , 2014, 22, 2403.	1.7	39
65	Expanding the femtosecond crystallography toolkit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16986-16987.	3.3	1
66	Time-resolved x-ray diffraction techniques for bulk polycrystalline materials under dynamic loading. <i>Review of Scientific Instruments</i> , 2014, 85, 093901.	0.6	28
67	Cryogenic x-ray diffraction microscopy utilizing high-pressure cryopreservation. <i>Physical Review E</i> , 2014, 90, 042713.	0.8	20
68	Monolithic Gyroidal Mesoporous Mixed Titanium- <i>n</i> -Niobium Nitrides. <i>ACS Nano</i> , 2014, 8, 8217-8223.	7.3	47
69	Linking experiment and theory for three-dimensional networked binary metal nanoparticle- <i>n</i> -triblock terpolymer superstructures. <i>Nature Communications</i> , 2014, 5, 3247.	5.8	58
70	Ordered nanostructured ceramic- <i>n</i> -metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 286-291.	1.1	3
71	High-dynamic-range coherent diffractive imaging: ptychography using the mixed-mode pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 1167-1174.	1.0	32
72	Room-temperature serial crystallography using a kinetically optimized microfluidic device for protein crystallization and on-chip X-ray diffraction. <i>IUCrJ</i> , 2014, 1, 349-360.	1.0	87

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73	Structure of a pseudokinase-domain switch that controls oncogenic activation of Jak kinases. <i>Nature Structural and Molecular Biology</i> , 2013, 20, 1221-1223.	3.6	87
74	Hierarchical Porous Polymer Scaffolds from Block Copolymers. <i>Science</i> , 2013, 341, 530-534.	6.0	257
75	Macchess: Unique Opportunities for Structural Biology at a Synchrotron Source. <i>Biophysical Journal</i> , 2013, 104, 184a.	0.2	0
76	Protein Dynamical Transition at Cryogenic Temperatures. <i>Biophysical Journal</i> , 2013, 104, 223a-224a.	0.2	0
77	The FPGA Pixel Array Detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 701, 7-16.	0.7	6
78	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.	1.9	32
79	A prototype direct-detection CCD for protein crystallography. <i>Journal of Applied Crystallography</i> , 2013, 46, 1038-1048.	1.9	1
80	Graphene as a protein crystal mounting material to reduce background scatter. <i>Journal of Applied Crystallography</i> , 2013, 46, 1501-1507.	1.9	46
81	Multicompartement Mesoporous Silica Nanoparticles with Branched Shapes: An Epitaxial Growth Mechanism. <i>Science</i> , 2013, 340, 337-341.	6.0	151
82	A Medium-Format, Mixed-Mode Pixel Array Detector for Kiloherzt X-ray Imaging. <i>Journal of Physics: Conference Series</i> , 2013, 425, 062004.	0.3	40
83	Calibration and post-processing for photon-integrating pixel array detectors. <i>Journal of Physics: Conference Series</i> , 2013, 425, 062009.	0.3	9
84	A high-spatial-resolution fiber-optic-coupled CMOS imager with novel scintillator for high-energy x-ray applications. <i>Journal of Physics: Conference Series</i> , 2013, 425, 062012.	0.3	0
85	X-ray imaging detectors. <i>Physics Today</i> , 2012, 65, 29-34.	0.3	21
86	Solving structure with sparse, randomly-oriented x-ray data. <i>Optics Express</i> , 2012, 20, 13129.	1.7	36
87	High-Speed <i>in Situ</i> X-ray Scattering of Carbon Nanotube Film Nucleation and Self-Organization. <i>ACS Nano</i> , 2012, 6, 5091-5101.	7.3	38
88	Asynchronous and synchronous implementations of the autocorrelation function for the FPGA X-ray pixel array detector. , 2012, , .		1
89	Protein crowding impedes pressure-induced unfolding of staphylococcal nuclease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012, 1820, 957-961.	1.1	10
90	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2012, 24, 3895-3905.	3.2	61

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91	Networked and chiral nanocomposites from ABC triblock terpolymer coassembly with transition metal oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2012, 22, 1078-1087.	6.7	58
92	Structural and Kinetic Effects on Changes in the CO ₂ Binding Pocket of Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2012, 51, 9156-9163.	1.2	20
93	High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. <i>Science</i> , 2012, 337, 362-364.	6.0	758
94	Single-crystal CVD diamonds as small-angle X-ray scattering windows for high-pressure research. <i>Journal of Applied Crystallography</i> , 2012, 45, 453-457.	1.9	13
95	Highly Aminated Mesoporous Silica Nanoparticles with Cubic Pore Structure. <i>Journal of the American Chemical Society</i> , 2011, 133, 172-175.	6.6	115
96	High-Pressure Protein Crystallography and NMR to Explore Protein Conformations. <i>Annual Review of Biophysics</i> , 2011, 40, 81-98.	4.5	58
97	Low-flux measurements with Cornell's LCLS integrating pixel array detector. <i>Journal of Instrumentation</i> , 2011, 6, C11006-C11006.	0.5	18
98	Status of CHESS facility and research programs: 2010. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 649, 3-5.	0.7	1
99	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.	0.7	102
100	Microcrystallography, high-pressure cryocooling and BioSAXS at MacCHESS. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 70-73.	1.0	11
101	X-ray analog pixel array detector for single synchrotron bunch time-resolved imaging. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 157-164.	1.0	21
102	Small-angle solution scattering using the mixed-mode pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 148-156.	1.0	6
103	Fast X-ray microdiffraction techniques for studying irreversible transformations in materials. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 464-474.	1.0	16
104	Protein dynamical transition at 110 K. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 20897-20901.	3.3	29
105	R&D Toward an Energy Recovery Linac at Synchrotron Light Source. <i>Synchrotron Radiation News</i> , 2010, 23, 32-41.	0.2	4
106	Femtosecond Radiation Experiment Detector for X-Ray Free-Electron Laser (XFEL) Coherent X-Ray Imaging. <i>IEEE Transactions on Nuclear Science</i> , 2010, , .	1.2	11
107	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, .	1.1	92
108	A Short, Strong Hydrogen Bond in the Active Site of Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2010, 49, 249-251.	1.2	138

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109	Ordered mesoporous silica nanoparticles with and without embedded iron oxide nanoparticles: structure evolution during synthesis. <i>Journal of Materials Chemistry</i> , 2010, 20, 7807.	6.7	74
110	Energy recovery linac (ERL) coherent hard x-ray sources. <i>New Journal of Physics</i> , 2010, 12, 035011.	1.2	75
111	Interaction between Supersonic Disintegrating Liquid Jets and Their Shock Waves. <i>Physical Review Letters</i> , 2009, 102, 074501.	2.9	28
112	Four dimensional visualization of highly transient fuel sprays by microsecond quantitative x-ray tomography. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	30
113	Facilitating protein crystal cryoprotection in thick-walled plastic capillaries by high-pressure cryocooling. <i>Journal of Applied Crystallography</i> , 2009, 42, 525-530.	1.9	8
114	A high-speed area detector for novel imaging techniques in a scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2009, 109, 304-311.	0.8	26
115	An Accumulating Pixel Array Detector for Single-Bunch Synchrotron Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2835-2842.	1.2	18
116	Metal Nanoparticle~Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009, 21, 5578-5584.	3.2	50
117	Coupling of Pressure-Induced Structural Shifts to Spectral Changes in a Yellow Fluorescent Protein. <i>Biophysical Journal</i> , 2009, 97, 1719-1727.	0.2	32
118	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.	3.2	64
119	Three-Component Porous~Carbon~Titania Nanocomposites through Self-Assembly of ABCBA Block Terpolymers with Titania Sols. <i>Macromolecules</i> , 2009, 42, 6682-6687.	2.2	31
120	Integrating Structure Control over Multiple Length Scales in Porous High Temperature Ceramics with Functional Platinum Nanoparticles. <i>Nano Letters</i> , 2009, 9, 2756-2762.	4.5	63
121	Morphology Diagram of a Diblock Copolymer~Aluminosilicate Nanoparticle System. <i>Chemistry of Materials</i> , 2009, 21, 5397-5405.	3.2	68
122	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, 4596-4600.	3.3	74
123	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.	0.5	40
124	Pressure-induced high-density amorphous ice in protein crystals. <i>Journal of Applied Crystallography</i> , 2008, 41, 1-7.	1.9	30
125	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.	1.9	49
126	Phase transformations during rapid heating of Al/Ni multilayer foils. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	103

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127	Ordered Mesoporous Materials from Metal Nanoparticle-Block Copolymer Self-Assembly. <i>Science</i> , 2008, 320, 1748-1752.	6.0	553
128	Hexagonally Patterned Lamellar Morphology in ABC Triblock Copolymer/Aluminosilicate Nanocomposites. <i>Chemistry of Materials</i> , 2008, 20, 3278-3287.	3.2	30
129	Self-Assembly of Four-Layer Woodpile Structure from Zigzag ABC Copolymer/Aluminosilicate Concertinas. <i>Macromolecules</i> , 2008, 41, 852-859.	2.2	28
130	Structural and Thermodynamic Characterization of T4 Lysozyme Mutants and the Contribution of Internal Cavities to Pressure Denaturation. <i>Biochemistry</i> , 2008, 47, 11097-11109.	1.2	55
131	Entrapment of Carbon Dioxide in the Active Site of Carbonic Anhydrase II. <i>Journal of Biological Chemistry</i> , 2008, 283, 30766-30771.	1.6	197
132	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, 13362-13366.	3.3	73
133	Femtosecond radiation experiment detector for X-ray Free-Electron Laser (XFEL) coherent x-ray imaging. , 2008, , .		1
134	Pixel array detector for the capture of femtosecond duration x-ray images. , 2007, 6703, 156.		8
135	Data acquisition and control for the LCLS pixel array detector. , 2007, , .		4
136	First results from the 128x128 pixel mixed-mode Si x-ray detector chip. <i>Proceedings of SPIE</i> , 2007, , .	0.8	17
137	Structural Rigidity of a Large Cavity-containing Protein Revealed by High-pressure Crystallography. <i>Journal of Molecular Biology</i> , 2007, 367, 752-763.	2.0	69
138	Surface Induced Tilt Propagation in Thin Films of Semifluorinated Liquid Crystalline Side Chain Block Copolymers. <i>Macromolecules</i> , 2007, 40, 81-89.	2.2	43
139	A Re-Evaluation of the Morphology of a Bicontinuous Block Copolymer-Ceramic Material. <i>Macromolecules</i> , 2007, 40, 8974-8982.	2.2	45
140	Nanoparticle-Induced Packing Transition in Mesostructured Block Dendron-Silica Hybrids. <i>Chemistry of Materials</i> , 2007, 19, 3611-3614.	3.2	15
141	The thermotropic phase behaviour and phase structure of a homologous series of racemic 1,2-d-galactosyl dialkylglycerols studied by differential scanning calorimetry and X-ray diffraction. <i>Chemistry and Physics of Lipids</i> , 2007, 148, 26-50.	1.5	35
142	High-pressure cryocooling for capillary sample cryoprotection and diffraction phasing at long wavelengths. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 653-659.	2.5	23
143	Gating of an organic transistor through a bilayer lipid membrane with ion channels. <i>Applied Physics Letters</i> , 2006, 89, 053505.	1.5	101
144	The RCK Domain of the KtrAB K ⁺ Transporter: Multiple Conformations of an Octameric Ring. <i>Cell</i> , 2006, 126, 1147-1159.	13.5	78

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145	CCD detectors. , 2006, , 148-153.		0
146	Macromolecular phasing. <i>Physics Today</i> , 2006, 59, 46-52.	0.3	10
147	Solution of protein crystallographic structures by high-pressure cryocooling and noble-gas phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 687-694.	2.5	26
148	Analog pixel array detectors. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 110-119.	1.0	29
149	Multilayer X-ray optics at CHESS. <i>Journal of Synchrotron Radiation</i> , 2006, 13, 204-210.	1.0	45
150	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.	1.1	114
151	Comparison of X-ray detectors. , 2006, , 143-147.		11
152	Technical Report: The Status of the Energy Recovery Linac Source of Coherent Hard X-rays at Cornell University. <i>Synchrotron Radiation News</i> , 2006, 19, 30-35.	0.2	6
153	Six-circle diffractometer with atmosphere- and temperature-controlled sample stage and area and line detectors for use in the G2 experimental station at CHESS. <i>Review of Scientific Instruments</i> , 2006, 77, 113301.	0.6	21
154	Energy recovery LINAC: A next generation source for inelastic X-ray scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 2310-2312.	1.9	5
155	Direct Access to Bicontinuous Skeletal Inorganic Plumber's Nightmare Networks from Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 1226-1229.	7.2	60
156	High-pressure cooling of protein crystals without cryoprotectants. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 881-890.	2.5	103
157	Crystallographic data collection using a 0.22% bandwidth multilayer. <i>Journal of Synchrotron Radiation</i> , 2005, 12, 345-348.	1.0	8
158	Area x-ray detector based on a lens-coupled charge-coupled device. <i>Review of Scientific Instruments</i> , 2005, 76, 081301.	0.6	16
159	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, 16668-16671.	3.3	186
160	Capsaicin Regulates Voltage-Dependent Sodium Channels by Altering Lipid Bilayer Elasticity. <i>Molecular Pharmacology</i> , 2005, 68, 680-689.	1.0	196
161	Generation dependent mesophase behavior in extended amphiphilic dendrons in the shape of macromolecular dumbbells. <i>Chemical Communications</i> , 2005, , 2143.	2.2	2
162	Formation of homogeneous unilamellar liposomes from an interdigitated matrix. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005, 1668, 117-125.	1.4	22

#	ARTICLE	IF	CITATIONS
163	Flow-Induced Alignment of Block Copolymer-Sol Nanoparticle Coassemblies toward Oriented Bulk Polymer-Silica Hybrids. <i>Macromolecules</i> , 2005, 38, 10095-10100.	2.2	22
164	Imaging Density Disturbances in Water with a 41.3-Attosecond Time Resolution. <i>Physical Review Letters</i> , 2004, 92, 237401.	2.9	52
165	Confocal X-ray Fluorescence (XRF) Microscopy: A New Technique for the Nondestructive Compositional Depth Profiling of Paintings. <i>Materials Research Society Symposia Proceedings</i> , 2004, 852, 65.	0.1	8
166	Another Question for Bush and Kerry. <i>Science</i> , 2004, 306, 609b-609b.	6.0	0
167	Concepts and Applications of Energy Recovery Linacs (ERLs). <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
168	Additive-Driven Phase-Selective Chemistry in Block Copolymer Thin Films: The Convergence of Top-Down and Bottom-Up Approaches. <i>Advanced Materials</i> , 2004, 16, 953-957.	11.1	97
169	Nanostructure and Shape Control in Polymer-Ceramic Hybrids from Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 Td Chemistry and Physics, 2004, 205, 1021-1030.	1.1	27
170	Mesophase Structure-Mechanical and Ionic Transport Correlations in Extended Amphiphilic Dendrons. <i>Science</i> , 2004, 305, 1598-1601.	6.0	384
171	Diastereoselective Alkylation of β^2 -Amino Esters: Structural and Rate Studies Reveal Alkylations of Hexameric Lithium Enolates. <i>Journal of the American Chemical Society</i> , 2004, 126, 16559-16568.	6.6	52
172	Characterization of β^2 -Amino Ester Enolates as Hexamers via ^6Li NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 5938-5939.	6.6	27
173	Nanohybrids from Liquid Crystalline Extended Amphiphilic Dendrimers. <i>Journal of the American Chemical Society</i> , 2004, 126, 4070-4071.	6.6	61
174	Synthesis and Self-Assembly of Amphiphilic Dendrimers Based on Aliphatic Polyether-Type Dendritic Cores. <i>Macromolecules</i> , 2004, 37, 4227-4234.	2.2	51
175	Development of ultrafast computed tomography of highly transient fuel sprays. , 2004, , .		11
176	Soft Materials and Biomaterials under Pressure. , 2004, , 543-556.		5
177	Synthesis and Characterization of Amphiphilic Poly(ethylene oxide)-block-poly(hexyl methacrylate) Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 1047-1055.	1.1	42
178	Energy-recovery linac project at Cornell University. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 346-348.	1.0	11
179	Energy recovery linacs as synchrotron light sources. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 500, 25-32.	0.7	10
180	Quantitative analysis of highly transient fuel sprays by time-resolved x-radiography. <i>Applied Physics Letters</i> , 2003, 83, 1671-1673.	1.5	84

#	ARTICLE	IF	CITATIONS
181	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, 13084-13093.	6.6	122
182	Coherent X-ray imaging and microscopy opportunities with a diffraction-limited Energy Recovery Linac (ERL) synchrotron source. <i>European Physical Journal Special Topics</i> , 2003, 104, 21-26.	0.2	4
183	Energy recovery linacs as synchrotron radiation sources (invited). <i>Review of Scientific Instruments</i> , 2002, 73, 1402-1406.	0.6	111
184	Pixel array detectors for time resolved radiography (invited). <i>Review of Scientific Instruments</i> , 2002, 73, 1621-1624.	0.6	27
185	Rapid compaction during RNA folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4266-4271.	3.3	207
186	MEMBRANE FUSION: Caught in the Act. <i>Science</i> , 2002, 297, 1817-1818.	6.0	11
187	X-ray Imaging of Shock Waves Generated by High-Pressure Fuel Sprays. <i>Science</i> , 2002, 295, 1261-1263.	6.0	128
188	CHESS 2002 users meeting. <i>Synchrotron Radiation News</i> , 2002, 15, 2-6.	0.2	0
189	Small-Angle Neutron Scattering Investigation of the Q-Dependence of the Flory-Huggins Interaction Parameter in a Binary Polymer Blend. <i>Macromolecules</i> , 2002, 35, 7375-7386.	2.2	18
190	Effect of Filler Dimensionality on the Order-Disorder Transition of a Model Block Copolymer Nanocomposite. <i>Macromolecules</i> , 2002, 35, 4862-4865.	2.2	34
191	Charge-coupled device area x-ray detectors. <i>Review of Scientific Instruments</i> , 2002, 73, 2815-2842.	0.6	227
192	Determination of L _α -HII Phase Transition Temperature for 1,2-Dioleoyl-sn-Glycero-3-Phosphatidylethanolamine. <i>Biophysical Journal</i> , 2002, 82, 2504-2510.	0.2	53
193	Probing Substates in Sperm Whale Myoglobin Using High-Pressure Crystallography. <i>Structure</i> , 2002, 10, 51-60.	1.6	143
194	X-Ray Diffraction Structures of Some Phosphatidylethanolamine Lamellar and Inverted Hexagonal Phases*. <i>Biophysical Journal</i> , 2001, 81, 2693-2706.	0.2	117
195	An analysis of the relationship between fatty acid composition and the lamellar gel to liquid-crystalline and the lamellar to inverted nonlamellar phase transition temperatures of phosphatidylethanolamines and diacyl-1,3-D-glucosyl glycerols. <i>European Biophysics Journal</i> , 2001, 30, 537-554.	1.2	21
196	Metal Oxide Containing Mesoporous Silica with Bicontinuous "Plumber's Nightmare" Morphology from a Block Copolymer-Hybrid Mesophase. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1207-1211.	7.2	93
197	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-(1 ² -D-galactopyranosyl)-sn-glycerols. <i>Chemistry and Physics of Lipids</i> , 2001, 111, 139-161.	1.5	44
198	New energy recovery linac source of synchrotron X-rays. <i>Synchrotron Radiation News</i> , 2001, 14, 12-21.	0.2	19

#	ARTICLE	IF	CITATIONS
199	Time Resolved Collapse of a Folding Protein Observed with Small Angle X-Ray Scattering. Physical Review Letters, 2001, 86, 4962-4965.	2.9	154
200	Development of a pixel array detector for time resolved x-ray imaging. AIP Conference Proceedings, 2000, , .	0.3	0
201	Perpendicular Deformation of a Near-Single-Crystal Triblock Copolymer with a Cylindrical Morphology. 1. Synchrotron SAXS. Macromolecules, 2000, 33, 9395-9406.	2.2	85
202	Silica Gels with Tunable Nanopores through Templating of the L3Phase. Langmuir, 2000, 16, 398-406.	1.6	37
203	Comment on "A Monte Carlo study of x-ray fluorescence in x-ray detectors" [Med. Phys. 26 , 905-916 (1999)]. Medical Physics, 1999, 26, 2706-2706.	1.6	0
204	Compactness of the denatured state of a fast-folding protein measured by submillisecond small-angle x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 10115-10117.	3.3	280
205	Tests of a prototype pixel array detector for microsecond time-resolved X-ray diffraction. Journal of Synchrotron Radiation, 1999, 6, 1096-1105.	1.0	48
206	Calibration procedures for charge-coupled device x-ray detectors. Review of Scientific Instruments, 1999, 70, 2927-2934.	0.6	52
207	Commentary: Liposomes or Lipid Science?. Journal of Liposome Research, 1999, 9, ix-xii.	1.5	0
208	A Pixel-Array Detector for Time-Resolved X-ray Diffraction. Journal of Synchrotron Radiation, 1998, 5, 252-255.	1.0	11
209	Periodic faceting of a Si(113) surface miscut towards [110]. Surface Science, 1998, 411, 70-85.	0.8	27
210	Doxorubicin physical state in solution and inside liposomes loaded via a pH gradient. Biochimica Et Biophysica Acta - Biomembranes, 1998, 1415, 23-40.	1.4	223
211	Anisotropic Coarsening of Periodic Grooves: Time-Resolved X-Ray Scattering. Physical Review Letters, 1998, 80, 337-340.	2.9	18
212	Coupling format variations in x-ray detectors based on charge coupled devices. Review of Scientific Instruments, 1997, 68, 47-54.	0.6	43
213	Study of afterglow in x-ray phosphors for use on fast-framing charge-coupled device detectors. Optical Engineering, 1997, 36, 3212.	0.5	27
214	Characterization of a prototype pixel array detector (PAD) for use in microsecond framing time-resolved X-ray diffraction studies. IEEE Transactions on Nuclear Science, 1997, 44, 950-956.	1.2	35
215	Three-dimensional diffuse x-ray scattering from crystals of Staphylococcal nuclease. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 6180-6184.	3.3	57
216	Titanium Dioxide Surfactant Mesophases and Ti-TMS1. Chemistry of Materials, 1997, 9, 2690-2693.	3.2	113

#	ARTICLE	IF	CITATIONS
217	Polymerization of the Inverted Hexagonal Phase. <i>Journal of the American Chemical Society</i> , 1997, 119, 4866-4873.	6.6	72
218	Microstructural Analysis of a Cubic Bicontinuous Morphology in a Neat SIS Triblock Copolymer. <i>Macromolecules</i> , 1997, 30, 3938-3941.	2.2	98
219	Nonlamellar Phases Induced by the Interaction of Gramicidin S with Lipid Bilayers. A Possible Relationship to Membrane-Disrupting Activity. <i>Biochemistry</i> , 1997, 36, 7906-7916.	1.2	135
220	Formation of a Silicate L3 Phase with Continuously Adjustable Pore Sizes. <i>Science</i> , 1997, 277, 552-556.	6.0	140
221	Solute-induced shift of phase transition temperature in Di-saturated PC liposomes: adoption of ripple phase creates osmotic stress. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1327, 41-51.	1.4	16
222	Role of phosphatidylethanolamine lipids in the stabilization of protein-lipid contacts. <i>Biophysical Chemistry</i> , 1997, 67, 269-279.	1.5	24
223	Phase Behavior of Polystyrene-Poly(2-vinylpyridine) Diblock Copolymers. <i>Macromolecules</i> , 1996, 29, 2857-2867.	2.2	182
224	Correlation between lipid plane curvature and lipid chain order. <i>Biophysical Journal</i> , 1996, 70, 2747-2757.	0.2	56
225	X-ray detectors for macromolecular crystallography. <i>Synchrotron Radiation News</i> , 1996, 9, 19-23.	0.2	1
226	Shear-Stabilized Bi-axial Texture and Lamellar Contraction in both Diblock Copolymer and Diblock Copolymer/Homopolymer Blends. <i>Macromolecules</i> , 1996, 29, 1482-1489.	2.2	58
227	High-Pressure Effects on the Order-Disorder Transition in Block Copolymer Melts. <i>Macromolecules</i> , 1996, 29, 1473-1481.	2.2	81
228	Small concentrations of alamethicin induce a cubic phase in bulk phosphatidylethanolamine mixtures. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1996, 1278, 241-246.	1.4	85
229	Phase Behavior of Pure Diblocks and Binary Diblock Blends of Poly(ethylene)-Poly(ethylene). <i>Macromolecules</i> , 1996, 29, 1204-1215.	2.2	193
230	Role of Lipid Polymorphism in Pulmonary Surfactant. <i>Science</i> , 1996, 273, 330-332.	6.0	74
231	Biomimetic Pathways for Assembling Inorganic Thin Films. <i>Science</i> , 1996, 273, 892-898.	6.0	740
232	Phase Behavior of Ordered Diblock Copolymer Blends: Effect of Compositional Heterogeneity. <i>Macromolecules</i> , 1996, 29, 4494-4507.	2.2	144
233	Choosing a Future for Physics Proves to Be Highly Debatable. <i>Physics Today</i> , 1996, 49, 11-89.	0.3	0
234	Orientation of triblock copolymers in planar extension. <i>Polymer Engineering and Science</i> , 1996, 36, 1414-1424.	1.5	59

#	ARTICLE	IF	CITATIONS
235	Pixel array detector for time-resolved x-ray scattering (invited). Review of Scientific Instruments, 1996, 67, 3360-3360.	0.6	1
236	Macromolecular crystallographic results obtained using a 2048Å–2048 CCD detector at CHESS. Review of Scientific Instruments, 1996, 67, 3361-3361.	0.6	10
237	What Future Will We Choose for Physics?. Physics Today, 1995, 48, 25-30.	0.3	15
238	Time-resolved x-ray studies of pressure-jump-induced topological transitions in biological membranes. , 1995, 2521, 188.		1
239	Development of a fast pixel array detector for use in microsecond time-resolved x-ray diffraction. , 1995, 2521, 301.		14
240	A Large-Format High-Resolution Area X-ray Detector Based on a Fiber-Optically Bonded Charge-Coupled Device (CCD). Journal of Applied Crystallography, 1995, 28, 196-205.	1.9	88
241	Charge coupled device X-ray detectors for macromolecular crystallography. Structure, 1995, 3, 13-15.	1.6	20
242	High-resolution macromolecular structure determination using CCD detectors and synchrotron radiation. Structure, 1995, 3, 835-844.	1.6	30
243	Macromolecular crystallographic results obtained at CHESS using a detector incorporating a charge-coupled device. Review of Scientific Instruments, 1995, 66, 1477-1479.	0.6	7
244	Pressure Induced Fusion (Pif) Liposomes: A Solventless Sterilizing Method for Producing Large Phospholipid Vesicles. Journal of Liposome Research, 1995, 5, 605-626.	1.5	7
245	Study of persistence in gadolinium oxysulfide x-ray phosphors. , 1995, , .		6
246	Polymerization of Nonlamellar Lipid Assemblies. Journal of the American Chemical Society, 1995, 117, 5573-5578.	6.6	100
247	A Reevaluation of Bicontinuous Cubic Phases in Starblock Copolymers. Macromolecules, 1995, 28, 2570-2573.	2.2	138
248	Comparison of the Lamellar Morphology of Microphase-Separated Cyclic Block Copolymers and Their Linear Precursors. Macromolecules, 1995, 28, 3485-3489.	2.2	70
249	Lipid extracts from membranes of A.choleplasma laidlawii A grown with different fatty acids have a nearly constant spontaneous curvature. Lipids and Lipid Metabolism, 1995, 1257, 18-24.	2.6	54
250	High-Pressure Effects on the Disordered Phase of Block Copolymer Melts. Macromolecules, 1995, 28, 7148-7156.	2.2	42
251	Coupling between Bilayer Curvature Elasticity and Membrane Protein Activity. Advances in Chemistry Series, 1994, , 129-149.	0.6	10
252	Pressure induced hydration dynamics of membranes. Physical Review Letters, 1994, 72, 2967-2970.	2.9	11

#	ARTICLE	IF	CITATIONS
253	X-ray detectors for macromolecular crystallography. <i>Current Opinion in Structural Biology</i> , 1994, 4, 765-769.	2.6	19
254	Freezing and melting water in lamellar structures. <i>Biophysical Journal</i> , 1994, 67, 706-712.	0.2	40
255	Enigmatic thermotropic phase behavior of highly asymmetric mixed-chain phosphatidylcholines that form mixed-interdigitated gel phases. <i>Biophysical Journal</i> , 1994, 66, 207-216.	0.2	37
256	Differential scanning calorimetry and X-ray diffraction studies of the thermotropic phase behavior of the diastereomeric di-tetradecyl-beta-D-galactosyl glycerols and their mixture. <i>Biophysical Journal</i> , 1994, 66, 734-740.	0.2	29
257	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, 1088-1103.	0.2	47
258	Observation of a reversible thermotropic order-order transition in a diblock copolymer. <i>Macromolecules</i> , 1994, 27, 490-501.	2.2	147
259	The Gyroid: A New Equilibrium Morphology in Weakly Segregated Diblock Copolymers. <i>Macromolecules</i> , 1994, 27, 4063-4075.	2.2	710
260	Synthesis of mesoscopic structures by co-assembly. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1994, 52, 448-449.	0.0	7
261	Structure of Phospholipid Suspensions under Negative Pressure. <i>Journal of Colloid and Interface Science</i> , 1993, 156, 430-432.	5.0	1
262	Curvature dependent induction of the interdigitated gel phase in DPPC vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1993, 1146, 247-257.	1.4	51
263	Probability of alamethicin conductance states varies with nonlamellar tendency of bilayer phospholipids. <i>Biophysical Journal</i> , 1993, 65, 23-27.	0.2	256
264	Pressure-induced topological phase transitions in membranes. <i>Physical Review Letters</i> , 1993, 70, 3455-3458.	2.9	53
265	<title>Characterization of polycrystalline phosphors for area x-ray detectors</title>. , 1993, 2009, 98.		15
266	Automated pressure and temperature control apparatus for x-ray powder diffraction studies. <i>Review of Scientific Instruments</i> , 1992, 63, 1763-1770.	0.6	15
267	High-pressure dilatometer. <i>Review of Scientific Instruments</i> , 1992, 63, 5426-5431.	0.6	3
268	X-ray diffraction reconstruction of the inverted hexagonal (HII) phase in lipid-water systems. <i>Biochemistry</i> , 1992, 31, 1340-1355.	1.2	132
269	Energetics of a hexagonal-lamellar-hexagonal-phase transition sequence in dioleoylphosphatidylethanolamine membranes. <i>Biochemistry</i> , 1992, 31, 2856-2864.	1.2	153
270	Kinetics of the lamellar-inverse hexagonal phase transition determined by time-resolved x-ray diffraction. <i>Biochemistry</i> , 1992, 31, 1081-1092.	1.2	43

#	ARTICLE	IF	CITATIONS
271	Effect of the chirality of the glycerol backbone on the bilayer and nonbilayer phase transitions in the diastereomers of di-dodecyl-beta-D-glucopyranosyl glycerol. <i>Biophysical Journal</i> , 1992, 63, 1355-1368.	0.2	39
272	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, 1356-1363.	1.2	42
273	Structural study of the inverted cubic phases of di-dodecyl alkyl- β -D-glucopyranosyl-rac-glycerol. <i>Journal De Physique II</i> , 1992, 2, 2039-2063.	0.9	68
274	Is the Mechanism of General Anesthesia Related to Lipid Membrane Spontaneous Curvature?. <i>Annals of the New York Academy of Sciences</i> , 1991, 625, 685-697.	1.8	87
275	Nonbilayer phases of membrane lipids. <i>Chemistry and Physics of Lipids</i> , 1991, 57, 147-164.	1.5	194
276	A direct-coupled detector for synchrotron X-radiation using a large format CCD. <i>IEEE Transactions on Nuclear Science</i> , 1991, 38, 110-118.	1.2	38
277	Lipid Membrane Curvature Elasticity and Protein Function. <i>NATO ASI Series Series B: Physics</i> , 1991, , 127-135.	0.2	23
278	Polymorphic phase behavior of alpha-tocopherol hemisuccinate. <i>Chemistry and Physics of Lipids</i> , 1990, 54, 193-203.	1.5	9
279	Physical studies on the membranes and lipids of plasmalogen-deficient <i>Megasphaera elsdenii</i> . <i>Chemistry and Physics of Lipids</i> , 1990, 55, 41-48.	1.5	27
280	Volume constriction in a lipid-water liquid crystal using high-pressure x-ray diffraction. <i>Physical Review A</i> , 1990, 42, 7479-7482.	1.0	15
281	Membrane curvature, lipid segregation, and structural transitions for phospholipids under dual-solvent stress. <i>Biochemistry</i> , 1990, 29, 76-87.	1.2	302
282	Thermotropic characterization of the 2-O-acyl, polyprenyl β -D-glucopyranoside isolated from palmitate-enriched <i>Acholeplasma laidlawii</i> B membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1990, 1026, 21-28.	1.4	11
283	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.	1.6	42
284	CCD and vidicon x-ray detectors: Theory and practice (invited). <i>Review of Scientific Instruments</i> , 1989, 60, 1545-1551.	0.6	46
285	Hydrocarbon chain conformation in the HII phase. <i>Biophysical Journal</i> , 1989, 56, 1045-1046.	0.2	11
286	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, 541-548.	1.2	125
287	Temperature dependence of the structural dimensions of the inverted hexagonal (HII) phase of phosphatidylethanolamine-containing membranes. <i>Biochemistry</i> , 1989, 28, 4245-4253.	1.2	136
288	Stability of lyotropic phases with curved interfaces. <i>The Journal of Physical Chemistry</i> , 1989, 93, 7562-7570.	2.9	370

#	ARTICLE	IF	CITATIONS
289	Evaluation of a Linear Self-Scanned Photodiode Array Detector for Direct Detection of 6-8 Kev X-Rays. Instrumentation Science and Technology, 1989, 18, 197-212.	0.9	0
290	Comment on: X-ray diffraction study of the effects of pressure on bilayer to nonbilayer lipid membrane phase transitions. Journal of Chemical Physics, 1989, 90, 1293-1295.	1.2	11
291	Use of a polymeric counter ion to induce bilayer formation from a single-chain surfactant. Journal of the American Chemical Society, 1988, 110, 5221-5222.	6.6	15
292	Observation of inverted cubic phase in hydrated dioleoylphosphatidylethanolamine membranes. Biochemistry, 1988, 27, 2332-2336.	1.2	143
293	X-ray diffraction study of the polymorphic behavior of N-methylated dioleoylphosphatidylethanolamine. Biochemistry, 1988, 27, 2853-2866.	1.2	280
294	Characterization of cholesterol hemisuccinate and α -tocopherol hemisuccinate vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1988, 941, 165-175.	1.4	18
295	Calcium-induced phase separation phenomena in multicomponent unsaturated lipid mixtures. Biochemistry, 1988, 27, 1415-1420.	1.2	39
296	Geometrical aspects of the frustration in the cubic phases of lyotropic liquid crystals.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 5364-5368.	3.3	219
297	Unusual lipid structures selectively reduce the toxicity of amphotericin B.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 6122-6126.	3.3	222
298	Lipid polymorphism of mixtures of dioleoylphosphatidylethanolamine and saturated and monounsaturated phosphatidylcholines of various chain lengths. Biochemistry, 1987, 26, 231-236.	1.2	141
299	Time-resolved x-ray diffraction of biological materials. Science, 1987, 238, 305-312.	6.0	73
300	The Role of the Lipid Bilayer in Amphiphile-Membrane/Receptor Interactions: A Unifying Hypothesis. Developments in Cardiovascular Medicine, 1987, , 353-365.	0.1	4
301	Directly measured deformation energy of phospholipid HII hexagonal phases. Faraday Discussions of the Chemical Society, 1986, 81, 29.	2.2	102
302	Polymorphic phase behavior of unsaturated lysophosphatidylethanolamines: A phosphorus-31 NMR and x-ray diffraction study. Biochemistry, 1986, 25, 816-822.	1.2	28
303	On the validity of ^{31}P -NMR determinations of phospholipid polymorphic phase behaviour. Chemistry and Physics of Lipids, 1986, 40, 47-56.	1.5	59
304	A Two-Dimensional X-Ray Detector with a Slow-Scan Charge-Coupled Device Readout. IEEE Transactions on Nuclear Science, 1986, 33, 542-545.	1.2	20
305	Format alterations in CCD based electro-optic X-ray detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 246, 527-533.	0.7	29
306	Intrinsic curvature hypothesis for biomembrane lipid composition: a role for nonbilayer lipids.. Proceedings of the National Academy of Sciences of the United States of America, 1985, 82, 3665-3669.	3.3	605

#	ARTICLE	IF	CITATIONS
307	Lipid Polymorphism: The Molecular Basis of Nonbilayer Phases. Annual Review of Biophysics and Biophysical Chemistry, 1985, 14, 211-238.	12.2	266
308	Novel multilayered lipid vesicles: comparison of physical characteristics of multilamellar liposomes and stable plurilamellar vesicles. Biochemistry, 1985, 24, 2833-2842.	1.2	178
309	X-ray diffraction demonstrates that phosphatidyl diacylglycerol and phosphatidylcholesterol are not lamellar above the main transition temperature. Biochimica Et Biophysica Acta - Biomembranes, 1985, 818, 352-355.	1.4	13
310	Phase properties of the aqueous dispersions of n-octadecylphosphocholine. Biochimica Et Biophysica Acta - Biomembranes, 1985, 813, 68-76.	1.4	19
311	Cation-dependent segregation phenomena and phase behavior in model membrane systems containing phosphatidylserine: influence of cholesterol and acyl chain composition. Biochemistry, 1984, 23, 2696-2703.	1.2	90
312	A thermodynamic model of the lamellar to inverse hexagonal phase transition of lipid membrane-water systems. Biochemistry, 1984, 23, 1093-1102.	1.2	227
313	A 12 Å... resolution X-ray diffraction study of the profile structure of isolated bovine retinal rod outer segment disk membranes. Biochimica Et Biophysica Acta - Biomembranes, 1984, 777, 9-20.	1.4	11
314	The Princeton slow-scan TV area detectors: seven years experience of continuous operation. Acta Crystallographica Section A: Foundations and Advances, 1984, 40, C402-C402.	0.3	0
315	Spatial, Temporal and Spectral Observations of Sonoluminescence by Means of Image Intensification. IEEE Transactions on Nuclear Science, 1983, 30, 440-444.	1.2	1
316	Observations of sonoluminescence using image intensification. Review of Scientific Instruments, 1982, 53, 1673-1676.	0.6	4
317	Diamagnetic anisotropy as a probe of electron delocalisation in polymers: application to polydiacetylenes, polyethylene, and polyethylene terephthalate. Journal of Physics C: Solid State Physics, 1982, 15, L631-L636.	1.5	3
318	A method for rapid, continuous monitoring of solute uptake and binding. Biochemistry, 1982, 21, 3239-3243.	1.2	11
319	Electrophoretic mobility of isolated retinal rod outer segment disk by Laser Doppler Spectroscopy. Biochemical and Biophysical Research Communications, 1982, 109, 402-407.	1.0	1
320	X-ray diffraction analysis of wet isolated bovine rod outer segment disks. A dehydration study. Biochimica Et Biophysica Acta - Biomembranes, 1982, 690, 187-198.	1.4	7
321	X-ray diffraction and electron microscope study of phase separation in rod outer segment photoreceptor membrane multilayers. Biophysical Journal, 1982, 39, 241-251.	0.2	47
322	Slow-scan silicon-intensified target TV X-ray detector for quantitative recording of weak X-ray images. Review of Scientific Instruments, 1982, 53, 1770-1778.	0.6	37
323	Encapsulated Scintillators Monitor 3H-Solute Concentrations. IEEE Transactions on Nuclear Science, 1982, 29, 769-772.	1.2	4
324	Survey of two-dimensional electro-optical X-ray detectors. Nuclear Instruments & Methods in Physics Research, 1982, 195, 287-297.	0.9	33

#	ARTICLE	IF	CITATIONS
325	Area detectors capable of recording X-ray diffraction patterns at high count-rates. Nuclear Instruments & Methods in Physics Research, 1982, 201, 43-52.	0.9	12
326	Controlled humidity gas circulators. Review of Scientific Instruments, 1981, 52, 134-136.	0.6	8
327	Freeze-fracture study of vesicle disruption and inversion in isolated bovine rod outer segment disks. Experimental Eye Research, 1980, 30, 501-510.	1.2	10
328	Evaluation of Area Photon Detectors by a Method Based on Detective Quantum Efficiency (DQE). IEEE Transactions on Nuclear Science, 1978, 25, 562-565.	1.2	39
329	High sensitivity image intensifier-TV detector for X-ray diffraction studies. Review of Scientific Instruments, 1978, 49, 1241-1249.	0.6	56
330	Image Intensification of X-Ray Diffraction Patterns from Biological Structures. IEEE Transactions on Nuclear Science, 1977, 24, 501-510.	1.2	8
331	A High Gain Image Intensifier - Spectroscopy System for in Vivo Spectral Studies of Bioluminescence. IEEE Transactions on Nuclear Science, 1975, 22, 404-411.	1.2	16
332	Time-Resolved and Quantitative Characterization of Highly Transient Gasoline Sprays by X-Radiography. , 0, , .		2
333	Quantitative Characterization of Near-Field Fuel Sprays by Multi-Orifice Direct Injection Using Ultrafast X-Tomography Technique. , 0, , .		7
334	Ultrafast and Quantitative X-Tomography and Simulation of Hollow-Cone Gasoline Direct-Injection Sprays. , 0, , .		2
335	Comparison of X-ray detectors. , 0, , 177-182.		5