

Sol Gruner

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

326
papers

17,596
citations

70
h-index

122
g-index

342
ext. papers

18,604
ext. citations

6.4
avg, IF

6.26
L-index

#	Paper	IF	Citations
326	Very-High Dynamic Range, 10,000 Frames/Second Pixel Array Detector for Electron Microscopy.. <i>Microscopy and Microanalysis</i> , 2022 , 1-16	0.5	1
325	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	1.7	1
324	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	15.6	5
323	Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science. <i>Advanced Materials</i> , 2021 , 33, e2006975	24	6
322	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	15.6	
321	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	24	
320	High-pressure small-angle X-ray scattering cell for biological solutions and soft materials. <i>Journal of Applied Crystallography</i> , 2021 , 54, 111-122	3.8	8
319	Piezomagnetic switching and complex phase equilibria in uranium dioxide. <i>Communications Materials</i> , 2021 , 2,	6	4
318	Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 34732-34741	9.5	2
317	Wide Dynamic Range, 10 kHz Framing Detector for 4D-STEM. <i>Microscopy and Microanalysis</i> , 2021 , 27, 992-993	0.5	0
316	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications 2020 , 1225-1255		4
315	Intermittent plasticity in individual grains: A study using high energy x-ray diffraction. <i>Structural Dynamics</i> , 2019 , 6, 014501	3.2	12
314	Phase Imaging beyond the Diffraction Limit with Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 6-7	0.5	1
313	Preparation of Macroscopic Block-Copolymer-Based Gyroidal Mesoscale Single Crystals by Solvent Evaporation. <i>Advanced Materials</i> , 2019 , 31, e1902565	24	10
312	Fixed-target serial oscillation crystallography at room temperature. <i>IUCrJ</i> , 2019 , 6, 305-316	4.7	16
311	Experimental 3D coherent diffractive imaging from photon-sparse random projections. <i>IUCrJ</i> , 2019 , 6, 357-365	4.7	30
310	Characterization of a Fast-Framing X-Ray Camera With Wide Dynamic Range for High-Energy Imaging 2019 ,		1

309	Mechanisms of oxide growth during the combustion of Al:Zr nanolaminate foils. <i>Combustion and Flame</i> , 2018 , 191, 442-452	5.3	7
308	In Situ Time-Resolved Measurements of Extension Twinning During Dynamic Compression of Polycrystalline Magnesium. <i>Journal of Dynamic Behavior of Materials</i> , 2018 , 4, 222-230	1.8	9
307	Electron ptychography of 2D materials to deep sub-ångström resolution. <i>Nature</i> , 2018 , 559, 343-349	50.4	269
306	Mapping Polarity, Toroidal Order, and the Local Energy Landscape by 4D-STEM. <i>Microscopy and Microanalysis</i> , 2018 , 24, 176-177	0.5	1
305	The consequences of cavity creation on the folding landscape of a repeat protein depend upon context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8153-E8161	11.5	14
304	Solving protein structure from sparse serial microcrystal diffraction data at a storage-ring synchrotron source. <i>IUCrJ</i> , 2018 , 5, 548-558	4.7	10
303	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications 2018 , 1-31		
302	Real-space Demonstration of 0.4 Angstrom Resolution at 80 keV via Electron Ptychography with a High Dynamic Range Pixel Array Detector. <i>Microscopy and Microanalysis</i> , 2018 , 24, 194-195	0.5	
301	Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. <i>Microscopy and Microanalysis</i> , 2018 , 24, 1588-1589	0.5	
300	Development of a Fast-Framing X-Ray Camera With Wide Dynamic Range for High-Energy Imaging 2018 ,		2
299	Strain Mapping of Two-Dimensional Heterostructures with Subpicometer Precision. <i>Nano Letters</i> , 2018 , 18, 3746-3751	11.5	50
298	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
297	Discovering Synthesis Routes to Hexagonally Ordered Mesoporous Niobium Nitrides Using Poloxamer/Pluronic Block Copolymers. <i>Chemistry of Materials</i> , 2017 , 29, 8973-8977	9.6	10
296	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	0.5	0
295	Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. <i>Microscopy and Microanalysis</i> , 2017 , 23, 444-445	0.5	1
294	X-ray reflectivity measurement of interdiffusion in metallic multilayers during rapid heating. <i>Journal of Synchrotron Radiation</i> , 2017 , 24, 796-801	2.4	12
293	Picometer-Precision Strain Mapping of Two-Dimensional Heterostructures using an Electron Microscope Pixel Array Detector (EMPAD). <i>Microscopy and Microanalysis</i> , 2017 , 23, 1712-1713	0.5	
292	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	3.8	3

291	Protein crystal structure from non-oriented, single-axis sparse X-ray data. <i>IUCrJ</i> , 2016 , 3, 43-50	4.7	6
290	An Electron Microscope Pixel Array Detector as a Universal STEM Detector. <i>Microscopy and Microanalysis</i> , 2016 , 22, 478-479	0.5	4
289	Electron Diffraction from a Single Atom and Optimal Signal Detection. <i>Microscopy and Microanalysis</i> , 2016 , 22, 846-847	0.5	3
288	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	0.5	5
287	Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. <i>Chemistry of Materials</i> , 2016 , 28, 838-847	9.6	10
286	Block copolymer self-assembly-directed synthesis of mesoporous gyroidal superconductors. <i>Science Advances</i> , 2016 , 2, e1501119	14.3	81
285	Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. <i>Nano Letters</i> , 2016 , 16, 651-5	11.5	22
284	High-speed X-ray imaging pixel array detector for synchrotron bunch isolation. <i>Journal of Synchrotron Radiation</i> , 2016 , 23, 395-403	2.4	17
283	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications 2016 , 1029-1054		3
282	The high dynamic range pixel array detector (HDR-PAD): Concept and design 2016 ,		3
281	Potential beneficial effects of electron-hole plasmas created in silicon sensors by XFEL-like high intensity pulses for detector development 2016 ,		1
280	4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1718-1719	0.5	2
279	High-speed x-ray imaging with the Keck pixel array detector (Keck PAD) for time-resolved experiments at synchrotron sources 2016 ,		3
278	Reduction of lattice disorder in protein crystals by high-pressure cryocooling. <i>Journal of Applied Crystallography</i> , 2016 , 49, 149-157	3.8	18
277	High-speed imaging at high x-ray energy: CdTe sensors coupled to charge-integrating pixel array detectors 2016 ,		1
276	High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 237-49	0.5	222
275	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, 5257-62	11.5	26
274	Biostructural Science Inspired by Next-Generation X-Ray Sources. <i>Annual Review of Biophysics</i> , 2015 , 44, 33-51	21.1	21

273	Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymer/butanol/alumina sols. <i>RSC Advances</i> , 2015 , 5, 49287-49294	3.7	12
272	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
271	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, 11765-70	11.5	9
270	Determination of crystallographic intensities from sparse data. <i>IUCrJ</i> , 2015 , 2, 29-34	4.7	20
269	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	0.5	1
268	A High Frame Rate Hybrid X-Ray Image Sensor. <i>IEEE Sensors Journal</i> , 2015 , 15, 1523-1531	4	2
267	Integrating Hybrid Area Detectors for Storage Ring and Free-Electron Laser Applications 2015 , 1-24		10
266	Cryogenic x-ray diffraction microscopy utilizing high-pressure cryopreservation. <i>Physical Review E</i> , 2014 , 90, 042713	2.4	18
265	Monolithic gyroidal mesoporous mixed titanium-niobium nitrides. <i>ACS Nano</i> , 2014 , 8, 8217-23	16.7	40
264	Linking experiment and theory for three-dimensional networked binary metal nanoparticle-triblock terpolymer superstructures. <i>Nature Communications</i> , 2014 , 5, 3247	17.4	51
263	Ordered nanostructured ceramic/metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 70, 286-293	1.3	3
262	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
261	Real-Space x-ray tomographic reconstruction of randomly oriented objects with sparse data frames. <i>Optics Express</i> , 2014 , 22, 2403-13	3.3	37
260	Expanding the femtosecond crystallography toolkit. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16986-7	11.5	1
259	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
258	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
257	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
256	Hierarchical porous polymer scaffolds from block copolymers. <i>Science</i> , 2013 , 341, 530-4	33.3	214

255	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	1.2	5
254	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
253	A prototype direct-detection CCD for protein crystallography. <i>Journal of Applied Crystallography</i> , 2013 , 46, 1038-1048	3.8	1
252	Graphene as a protein crystal mounting material to reduce background scatter. <i>Journal of Applied Crystallography</i> , 2013 , 46, 1501-1507	3.8	41
251	Multicompartment mesoporous silica nanoparticles with branched shapes: an epitaxial growth mechanism. <i>Science</i> , 2013 , 340, 337-41	33.3	132
250	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
249	Calibration and post-processing for photon-integrating pixel array detectors. <i>Journal of Physics: Conference Series</i> , 2013 , 425, 062009	0.3	9
248	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	
247	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	3.8	10
246	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
245	Asynchronous and synchronous implementations of the autocorrelation function for the FPGA X-ray pixel array detector 2012 ,		1
244	Protein crowding impedes pressure-induced unfolding of staphylococcal nuclease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2012 , 1820, 957-61	4	10
243	Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. <i>Chemistry of Materials</i> , 2012 , 24, 3895-3905	9.6	52
242	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
241	Structural and kinetic effects on changes in the CO(2) binding pocket of human carbonic anhydrase II. <i>Biochemistry</i> , 2012 , 51, 9156-63	3.2	18
240	Comparison of X-ray detectors 2012 , 177-182		4
239	High-resolution protein structure determination by serial femtosecond crystallography. <i>Science</i> , 2012 , 337, 362-4	33.3	641
238	X-ray imaging detectors. <i>Physics Today</i> , 2012 , 65, 29-34	0.9	12

237	Solving structure with sparse, randomly-oriented x-ray data. <i>Optics Express</i> , 2012 , 20, 13129-37	3.3	33
236	Highly aminated mesoporous silica nanoparticles with cubic pore structure. <i>Journal of the American Chemical Society</i> , 2011 , 133, 172-5	16.4	105
235	High-pressure protein crystallography and NMR to explore protein conformations. <i>Annual Review of Biophysics</i> , 2011 , 40, 81-98	21.1	47
234	Low-flux measurements with Cornell's LCLS integrating pixel array detector. <i>Journal of Instrumentation</i> , 2011 , 6, C11006-C11006	1	18
233	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
232	Microcrystallography, high-pressure cryocooling and BioSAXS at MacCHESS. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 70-3	2.4	9
231	X-ray analog pixel array detector for single synchrotron bunch time-resolved imaging. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 157-64	2.4	20
230	Small-angle solution scattering using the mixed-mode pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 148-56	2.4	4
229	Fast X-ray microdiffraction techniques for studying irreversible transformations in materials. <i>Journal of Synchrotron Radiation</i> , 2011 , 18, 464-74	2.4	15
228	Protein dynamical transition at 110 K. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 20897-901	11.5	19
227	R&D Toward an Energy Recovery Linac at Synchrotron Light Source. <i>Synchrotron Radiation News</i> , 2010 , 23, 32-41	0.6	3
226	. <i>IEEE Transactions on Nuclear Science</i> , 2010 ,	1.7	9
225	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
224	A short, strong hydrogen bond in the active site of human carbonic anhydrase II. <i>Biochemistry</i> , 2010 , 49, 249-51	3.2	123
223	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
222	Energy recovery linac (ERL) coherent hard x-ray sources. <i>New Journal of Physics</i> , 2010 , 12, 035011	2.9	63
221	Interaction between supersonic disintegrating liquid jets and their shock waves. <i>Physical Review Letters</i> , 2009 , 102, 074501	7.4	26
220	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

219	Facilitating protein crystal cryoprotection in thick-walled plastic capillaries by high-pressure cryocooling. <i>Journal of Applied Crystallography</i> , 2009 , 42, 525-530	3.8	8
218	A high-speed area detector for novel imaging techniques in a scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2009 , 109, 304-11	3.1	21
217	An Accumulating Pixel Array Detector for Single-Bunch Synchrotron Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 2835-2842	1.7	18
216	Metal Nanoparticle/Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009 , 21, 5578-5584	9.6	46
215	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
214	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
213	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
212	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
211	Morphology Diagram of a Diblock Copolymer/Aluminosilicate Nanoparticle System. <i>Chemistry of Materials</i> , 2009 , 21, 5397-5405	9.6	57
210	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
209	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
208	Phase transformations during rapid heating of Al/Ni multilayer foils. <i>Applied Physics Letters</i> , 2008 , 93, 081903	3.4	89
207	Ordered mesoporous materials from metal nanoparticle-block copolymer self-assembly. <i>Science</i> , 2008 , 320, 1748-52	33.3	508
206	Hexagonally Patterned Lamellar Morphology in ABC Triblock Copolymer/Aluminosilicate Nanocomposites. <i>Chemistry of Materials</i> , 2008 , 20, 3278-3287	9.6	30
205	Self-Assembly of Four-Layer Woodpile Structure from Zigzag ABC Copolymer/Aluminosilicate Concertinas. <i>Macromolecules</i> , 2008 , 41, 852-859	5.5	27
204	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
203	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
202	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

201	2008,			1
200	Pressure-induced high-density amorphous ice in protein crystals. <i>Journal of Applied Crystallography</i> , 2008 , 41, 1-7	3.8		29
199	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
198	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
197	A Re-Evaluation of the Morphology of a Bicontinuous Block Copolymer/Ceramic Material. <i>Macromolecules</i> , 2007 , 40, 8974-8982	5.5		41
196	Nanoparticle-Induced Packing Transition in Mesostructured Block Dendron/Silica Hybrids. <i>Chemistry of Materials</i> , 2007 , 19, 3611-3614	9.6		15
195	Ultrafast and Quantitative X-Tomography and Simulation of Hollow-Cone Gasoline Direct-Injection Sprays 2007,			1
194	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
193	High-pressure cryocooling for capillary sample cryoprotection and diffraction phasing at long wavelengths. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007 , 63, 653-9			19
192	Pixel array detector for the capture of femtosecond duration x-ray images 2007, 6703, 156			8
191	Data acquisition and control for the LCLS pixel array detector 2007,			3
190	First results from the 128x128 pixel mixed-mode Si x-ray detector chip 2007,			17
189	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
188	Comparison of X-ray detectors 2006, 143-147			10
187	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	0.6		6
186	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	1.7		20
185	Gating of an organic transistor through a bilayer lipid membrane with ion channels. <i>Applied Physics Letters</i> , 2006 , 89, 053505	3.4		93
184	The RCK domain of the KtrAB K ⁺ transporter: multiple conformations of an octameric ring. <i>Cell</i> , 2006 , 126, 1147-59	56.2		72

183	Quantitative Characterization of Near-Field Fuel Sprays by Multi-Orifice Direct Injection Using Ultrafast X-Tomography Technique 2006 ,		6
182	CCD detectors 2006 , 148-153		
181	Macromolecular phasing. <i>Physics Today</i> , 2006 , 59, 46-52	0.9	8
180	Solution of protein crystallographic structures by high-pressure cryocooling and noble-gas phasing. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006 , 62, 687-94		25
179	Analog pixel array detectors. <i>Journal of Synchrotron Radiation</i> , 2006 , 13, 110-9	2.4	24
178	Multilayer X-ray optics at CHESS. <i>Journal of Synchrotron Radiation</i> , 2006 , 13, 204-10	2.4	39
177	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
176	Generation dependent mesophase behavior in extended amphiphilic dendrons in the shape of macromolecular dumbbells. <i>Chemical Communications</i> , 2005 , 2143-5	5.8	2
175	Formation of homogeneous unilamellar liposomes from an interdigitated matrix. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2005 , 1668, 117-25	3.8	20
174	Flow-Induced Alignment of Block Copolymer/Bol Nanoparticle Coassemblies toward Oriented Bulk Polymer/Silica Hybrids. <i>Macromolecules</i> , 2005 , 38, 10095-10100	5.5	21
173	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	3.9	5
172	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
171	Direct Access to Bicontinuous Skeletal Inorganic Plumber's Nightmare Networks from Block Copolymers. <i>Angewandte Chemie</i> , 2005 , 117, 1252-1255	3.6	10
170	High-pressure cooling of protein crystals without cryoprotectants. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005 , 61, 881-90		91
169	Crystallographic data collection using a 0.22% bandwidth multilayer. <i>Journal of Synchrotron Radiation</i> , 2005 , 12, 345-8	2.4	4
168	Area x-ray detector based on a lens-coupled charge-coupled device. <i>Review of Scientific Instruments</i> , 2005 , 76, 081301	1.7	11
167	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
166	Capsaicin regulates voltage-dependent sodium channels by altering lipid bilayer elasticity. <i>Molecular Pharmacology</i> , 2005 , 68, 680-9	4.3	168

165	Imaging density disturbances in water with a 41.3-attosecond time resolution. <i>Physical Review Letters</i> , 2004 , 92, 237401	7.4	41
164	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		5
163	Another question for Bush and Kerry. <i>Science</i> , 2004 , 306, 609	33.3	
162	Concepts and Applications of Energy Recovery Linacs (ERLs). <i>AIP Conference Proceedings</i> , 2004 ,	0	1
161	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	24	93
160	Nanostructure and Shape Control in Polymer-Ceramic Hybrids from Poly(ethylene oxide)-block-Poly(hexyl methacrylate) and Aluminosilicates Derived from Them. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 1021-1030	2.6	26
159	Mesophase structure-mechanical and ionic transport correlations in extended amphiphilic dendrons. <i>Science</i> , 2004 , 305, 1598-601	33.3	356
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