

Sol Gruner

List of Publications by Year in descending order

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335
papers

20,031
citations

9786

73
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13379

130
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342
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342
docs citations

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times ranked

15808
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Very-High Dynamic Range, 10,000 Frames/Second Pixel Array Detector for Electron Microscopy. Microscopy and Microanalysis, 2022, 28, 425-440. | 0.4 | 21 |
| 2 | High-pressure small-angle X-ray scattering cell for biological solutions and soft materials. Journal of Applied Crystallography, 2021, 54, 111-122. | 4.5 | 23 |
| 3 | Piezomagnetic switching and complex phase equilibria in uranium dioxide. Communications Materials, 2021, 2, . | 6.9 | 9 |
| 4 | Superconducting Quantum Metamaterials from High Pressure Melt Infiltration of Metals into Block Copolymer Double Gyroid Derived Ceramic Templates. Advanced Functional Materials, 2021, 31, 2100469. | 14.9 | 7 |
| 5 | Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science. Advanced Materials, 2021, 33, e2006975. | 21.0 | 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). Advanced Functional Materials, 2021, 31, 2170166. | 14.9 | 0 |
| 7 | Mesoporous Superconductors: Superconducting Quantum Metamaterials from Convergence of Soft and Hard Condensed Matter Science (Adv. Mater. 26/2021). Advanced Materials, 2021, 33, 2170203. | 21.0 | 0 |
| 8 | Patternable Mesoporous Thin Film Quantum Materials via Block Copolymer Self-Assembly: An Emergent Technology?. ACS Applied Materials & Interfaces, 2021, 13, 34732-34741. | 8.0 | 4 |
| 9 | Wide Dynamic Range, 10 kHz Framing Detector for 4D-STEM. Microscopy and Microanalysis, 2021, 27, 992-993. | 0.4 | 2 |
| 10 | Characterization of a Small-Scale Prototype Detector With Wide Dynamic Range for Time-Resolved High-Energy X-Ray Applications. IEEE Transactions on Nuclear Science, 2021, , 1-1. | 2.0 | 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. Microscopy and Microanalysis, 2019, 25, 6-7. | 0.4 | 1 |
| 14 | Preparation of Macroscopic Blockâ€Copolymerâ€CBased Gyroidal Mesoscale Single Crystals by Solvent Evaporation. Advanced Materials, 2019, 31, e1902565. | 21.0 | 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. Structural Dynamics, 2019, 6, 014501. | 2.3 | 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. IUCr, 2019, 6, 305-316. | 2.2 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Experimental 3D coherent diffractive imaging from photon-sparse random projections. IUCrJ, 2019, 6, 357-365. | 2.2 | 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. | 5.2 | 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. | 1.7 | 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. | 0.4 | 0 |
| 24 | Mapping Strain and Relaxation in 2D Heterojunctions with Sub-picometer Precision. Microscopy and Microanalysis, 2018, 24, 1588-1589. | 0.4 | 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. | 9.1 | 82 |
| 27 | Electron ptychography of 2D materials to deep sub-Ångström resolution. Nature, 2018, 559, 343-349. | 27.8 | 431 |
| 28 | Mapping Polarity, Toroidal Order, and the Local Energy Landscape by 4D-STEM. Microscopy and Microanalysis, 2018, 24, 176-177. | 0.4 | 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. | 7.1 | 17 |
| 30 | Solving protein structure from sparse serial microcrystal diffraction data at a storage-ring synchrotron source. IUCrJ, 2018, 5, 548-558. | 2.2 | 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. | 2.0 | 37 |
| 33 | Discovering Synthesis Routes to Hexagonally Ordered Mesoporous Niobium Nitrides Using Poloxamer/Pluronics Block Copolymers. Chemistry of Materials, 2017, 29, 8973-8977. | 6.7 | 12 |
| 34 | Theory and Practice of Diffractometry on Single Tungsten Atoms using Electron Microscope Pixel Array Detectors. Microscopy and Microanalysis, 2017, 23, 444-445. | 0.4 | 2 |
| 35 | X-ray reflectivity measurement of interdiffusion in metallic multilayers during rapid heating. Journal of Synchrotron Radiation, 2017, 24, 796-801. | 2.4 | 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. | 0.4 | 1 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Reconstructing three-dimensional protein crystal intensities from sparse unoriented two-axis X-ray diffraction patterns. Journal of Applied Crystallography, 2017, 50, 985-993. | 4.5 | 5 |
| 38 | Measuring Orbital Angular Momentum (OAM) and Torque Transfer from Polarization Vortices with the Electron Microscopy Pixel Array Detector. Microscopy and Microanalysis, 2017, 23, 1634-1635. | 0.4 | 1 |
| 39 | The high dynamic range pixel array detector (HDR-PAD): Concept and design. AIP Conference Proceedings, 2016, , . | 0.4 | 3 |
| 40 | Potential beneficial effects of electron-hole plasmas created in silicon sensors by XFEL-like high intensity pulses for detector development. AIP Conference Proceedings, 2016, , . | 0.4 | 2 |
| 41 | 4D-STEM for Quantitative Imaging of Magnetic Materials with Enhanced Contrast and Resolution. Microscopy and Microanalysis, 2016, 22, 1718-1719. | 0.4 | 3 |
| 42 | High-speed x-ray imaging with the Keck pixel array detector (Keck PAD) for time-resolved experiments at synchrotron sources. AIP Conference Proceedings, 2016, , . | 0.4 | 4 |
| 43 | Reduction of lattice disorder in protein crystals by high-pressure cryocooling. Journal of Applied Crystallography, 2016, 49, 149-157. | 4.5 | 22 |
| 44 | High-speed imaging at high x-ray energy: CdTe sensors coupled to charge-integrating pixel array detectors. AIP Conference Proceedings, 2016, , . | 0.4 | 1 |
| 45 | High Dynamic Range Pixel Array Detector for Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2016, 22, 237-249. | 0.4 | 334 |
| 46 | Tracking solvent and protein movement during CO ₂ release in carbonic anhydrase II crystals. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5257-5262. | 7.1 | 30 |
| 47 | Protein crystal structure from non-oriented, single-axis sparse X-ray data. IUCrJ, 2016, 3, 43-50. | 2.2 | 6 |
| 48 | An Electron Microscope Pixel Array Detector as a Universal STEM Detector. Microscopy and Microanalysis, 2016, 22, 478-479. | 0.4 | 6 |
| 49 | Electron Diffraction from a Single Atom and Optimal Signal Detection. Microscopy and Microanalysis, 2016, 22, 846-847. | 0.4 | 3 |
| 50 | Reconstruction of Polarization Vortices by Diffraction Mapping of Ferroelectric PbTiO ₃ / SrTiO ₃ Superlattice Using a High Dynamic Range Pixelated Detector. Microscopy and Microanalysis, 2016, 22, 472-473. | 0.4 | 7 |
| 51 | Formation of Periodically-Ordered Calcium Phosphate Nanostructures by Block Copolymer-Directed Self-Assembly. Chemistry of Materials, 2016, 28, 838-847. | 6.7 | 12 |
| 52 | Block copolymer self-assemblyâ€ directed synthesis of mesoporous gyroidal superconductors. Science Advances, 2016, 2, e1501119. | 10.3 | 104 |
| 53 | Stimuli-Responsive Shapeshifting Mesoporous Silica Nanoparticles. Nano Letters, 2016, 16, 651-655. | 9.1 | 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. Journal of Synchrotron Radiation, 2016, 23, 395-403. | 2.4 | 19 |
| 56 | Determination of crystallographic intensities from sparse data. IUCrJ, 2015, 2, 29-34. | 2.2 | 21 |
| 57 | Lorentz-STEM imaging of Fields and Domains using a High-Speed, High-Dynamic Range Pixel Array Detector at Atomic Resolution. Microscopy and Microanalysis, 2015, 21, 2309-2310. | 0.4 | 1 |
| 58 | A High Frame Rate Hybrid X-Ray Image Sensor. IEEE Sensors Journal, 2015, 15, 1523-1531. | 4.7 | 2 |
| 59 | Biostructural Science Inspired by Next-Generation X-Ray Sources. Annual Review of Biophysics, 2015, 44, 33-51. | 10.0 | 25 |
| 60 | Ordered mesoporous crystalline aluminas from self-assembly of ABC triblock terpolymerâ€“butanolâ€“alumina sols. RSC Advances, 2015, 5, 49287-49294. | 3.6 | 13 |
| 61 | Ordered mesoporous titania from highly amphiphilic block copolymers: tuned solution conditions enable highly ordered morphologies and ultra-large mesopores. Journal of Materials Chemistry A, 2015, 3, 11478-11492. | 10.3 | 35 |
| 62 | Glass-to-cryogenic-liquid transitions in aqueous solutions suggested by crack healing. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 11765-11770. | 7.1 | 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. Optics Express, 2014, 22, 2403. | 3.4 | 39 |
| 65 | Expanding the femtosecond crystallography toolkit. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16986-16987. | 7.1 | 1 |
| 66 | Time-resolved x-ray diffraction techniques for bulk polycrystalline materials under dynamic loading. Review of Scientific Instruments, 2014, 85, 093901. | 1.3 | 28 |
| 67 | Cryogenic x-ray diffraction microscopy utilizing high-pressure cryopreservation. Physical Review E, 2014, 90, 042713. | 2.1 | 20 |
| 68 | Monolithic Gyroidal Mesoporous Mixed Titaniumâ€“Niobium Nitrides. ACS Nano, 2014, 8, 8217-8223. | 14.6 | 47 |
| 69 | Linking experiment and theory for three-dimensional networked binary metal nanoparticleâ€“triblock terpolymer superstructures. Nature Communications, 2014, 5, 3247. | 12.8 | 58 |
| 70 | Ordered nanostructured ceramicâ€“metal composites through multifunctional block copolymer-metal nanoparticle self-assembly. Journal of Sol-Gel Science and Technology, 2014, 70, 286-291. | 2.4 | 3 |
| 71 | High-dynamic-range coherent diffractive imaging: ptychography using the mixed-mode pixel array detector. Journal of Synchrotron Radiation, 2014, 21, 1167-1174. | 2.4 | 32 |
| 72 | Room-temperature serial crystallography using a kinetically optimized microfluidic device for protein crystallization and on-chip X-ray diffraction. IUCrJ, 2014, 1, 349-360. | 2.2 | 87 |

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| 73 | Structure of a pseudokinase-domain switch that controls oncogenic activation of Jak kinases. Nature Structural and Molecular Biology, 2013, 20, 1221-1223. | 8.2 | 87 |
| 74 | Hierarchical Porous Polymer Scaffolds from Block Copolymers. Science, 2013, 341, 530-534. | 12.6 | 257 |
| 75 | Macchess: Unique Opportunities for Structural Biology at a Synchrotron Source. Biophysical Journal, 2013, 104, 184a. | 0.5 | 0 |
| 76 | Protein Dynamical Transition at Cryogenic Temperatures. Biophysical Journal, 2013, 104, 223a-224a. | 0.5 | 0 |
| 77 | The FPGA Pixel Array Detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 701, 7-16. | 1.6 | 6 |
| 78 | A high-pressure cryocooling method for protein crystals and biological samples with reduced background X-ray scatter. Journal of Applied Crystallography, 2013, 46, 234-241. | 4.5 | 32 |
| 79 | A prototype direct-detection CCD for protein crystallography. Journal of Applied Crystallography, 2013, 46, 1038-1048. | 4.5 | 1 |
| 80 | Graphene as a protein crystal mounting material to reduce background scatter. Journal of Applied Crystallography, 2013, 46, 1501-1507. | 4.5 | 46 |
| 81 | Multicompartment Mesoporous Silica Nanoparticles with Branched Shapes: An Epitaxial Growth Mechanism. Science, 2013, 340, 337-341. | 12.6 | 151 |
| 82 | A Medium-Format, Mixed-Mode Pixel Array Detector for Kilohertz X-ray Imaging. Journal of Physics: Conference Series, 2013, 425, 062004. | 0.4 | 40 |
| 83 | Calibration and post-processing for photon-integrating pixel array detectors. Journal of Physics: Conference Series, 2013, 425, 062009. | 0.4 | 9 |
| 84 | A high-spatial-resolution fiber-optic-coupled CMOS imager with novel scintillator for high-energy x-ray applications. Journal of Physics: Conference Series, 2013, 425, 062012. | 0.4 | 0 |
| 85 | X-ray imaging detectors. Physics Today, 2012, 65, 29-34. | 0.3 | 21 |
| 86 | Solving structure with sparse, randomly-oriented x-ray data. Optics Express, 2012, 20, 13129. | 3.4 | 36 |
| 87 | High-Speed <i>in Situ</i> X-ray Scattering of Carbon Nanotube Film Nucleation and Self-Organization. ACS Nano, 2012, 6, 5091-5101. | 14.6 | 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. Biochimica Et Biophysica Acta - General Subjects, 2012, 1820, 957-961. | 2.4 | 10 |
| 90 | Synthesis and Formation Mechanism of Aminated Mesoporous Silica Nanoparticles. Chemistry of Materials, 2012, 24, 3895-3905. | 6.7 | 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. | 2.5 | 20 |
| 93 | High-Resolution Protein Structure Determination by Serial Femtosecond Crystallography. <i>Science</i> , 2012, 337, 362-364. | 12.6 | 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. | 4.5 | 13 |
| 95 | Highly Aminated Mesoporous Silica Nanoparticles with Cubic Pore Structure. <i>Journal of the American Chemical Society</i> , 2011, 133, 172-175. | 13.7 | 115 |
| 96 | High-Pressure Protein Crystallography and NMR to Explore Protein Conformations. <i>Annual Review of Biophysics</i> , 2011, 40, 81-98. | 10.0 | 58 |
| 97 | Low-flux measurements with Cornell's LCLS integrating pixel array detector. <i>Journal of Instrumentation</i> , 2011, 6, C11006-C11006. | 1.2 | 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. | 1.6 | 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. | 1.6 | 102 |
| 100 | Microcrystallography, high-pressure cryocooling and BioSAXS at MacCHESS. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 70-73. | 2.4 | 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. | 2.4 | 21 |
| 102 | Small-angle solution scattering using the mixed-mode pixel array detector. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 148-156. | 2.4 | 6 |
| 103 | Fast X-ray microdiffraction techniques for studying irreversible transformations in materials. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 464-474. | 2.4 | 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. | 7.1 | 29 |
| 105 | R&D Toward an Energy Recovery Linac at Synchrotron Light Source. <i>Synchrotron Radiation News</i> , 2010, 23, 32-41. | 0.8 | 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, , . | 2.0 | 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, . | 2.5 | 92 |
| 108 | A Short, Strong Hydrogen Bond in the Active Site of Human Carbonic Anhydrase II. <i>Biochemistry</i> , 2010, 49, 249-251. | 2.5 | 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. | 2.9 | 75 |
| 111 | Interaction between Supersonic Disintegrating Liquid Jets and Their Shock Waves. <i>Physical Review Letters</i> , 2009, 102, 074501. | 7.8 | 28 |
| 112 | Four dimensional visualization of highly transient fuel sprays by microsecond quantitative x-ray tomography. <i>Applied Physics Letters</i> , 2009, 94, . | 3.3 | 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. | 4.5 | 8 |
| 114 | A high-speed area detector for novel imaging techniques in a scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2009, 109, 304-311. | 1.9 | 26 |
| 115 | An Accumulating Pixel Array Detector for Single-Bunch Synchrotron Experiments. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2835-2842. | 2.0 | 18 |
| 116 | Metal Nanoparticle~Block Copolymer Composite Assembly and Disassembly. <i>Chemistry of Materials</i> , 2009, 21, 5578-5584. | 6.7 | 50 |
| 117 | Coupling of Pressure-Induced Structural Shifts to Spectral Changes in a Yellow Fluorescent Protein. <i>Biophysical Journal</i> , 2009, 97, 1719-1727. | 0.5 | 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. | 6.7 | 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. | 4.8 | 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. | 9.1 | 63 |
| 121 | Morphology Diagram of a Diblock Copolymer~Aluminosilicate Nanoparticle System. <i>Chemistry of Materials</i> , 2009, 21, 5397-5405. | 6.7 | 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. | 7.1 | 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. | 1.2 | 40 |
| 124 | Pressure-induced high-density amorphous ice in protein crystals. <i>Journal of Applied Crystallography</i> , 2008, 41, 1-7. | 4.5 | 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. | 4.5 | 49 |
| 126 | Phase transformations during rapid heating of Al/Ni multilayer foils. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 103 |

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|-----|---|------|-----------|
| 127 | Ordered Mesoporous Materials from Metal Nanoparticle-Block Copolymer Self-Assembly. <i>Science</i> , 2008, 320, 1748-1752. | 12.6 | 553 |
| 128 | Hexagonally Patterned Lamellar Morphology in ABC Triblock Copolymer/Aluminosilicate Nanocomposites. <i>Chemistry of Materials</i> , 2008, 20, 3278-3287. | 6.7 | 30 |
| 129 | Self-Assembly of Four-Layer Woodpile Structure from Zigzag ABC Copolymer/Aluminosilicate Concertinas. <i>Macromolecules</i> , 2008, 41, 852-859. | 4.8 | 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. | 2.5 | 55 |
| 131 | Entrapment of Carbon Dioxide in the Active Site of Carbonic Anhydrase II. <i>Journal of Biological Chemistry</i> , 2008, 283, 30766-30771. | 3.4 | 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. | 7.1 | 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. | 4.2 | 69 |
| 138 | Surface Induced Tilt Propagation in Thin Films of Semifluorinated Liquid Crystalline Side Chain Block Copolymers. <i>Macromolecules</i> , 2007, 40, 81-89. | 4.8 | 43 |
| 139 | A Re-Evaluation of the Morphology of a Bicontinuous Block Copolymer-Ceramic Material. <i>Macromolecules</i> , 2007, 40, 8974-8982. | 4.8 | 45 |
| 140 | Nanoparticle-Induced Packing Transition in Mesostructured Block Dendron-Silica Hybrids. <i>Chemistry of Materials</i> , 2007, 19, 3611-3614. | 6.7 | 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. | 3.2 | 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. | 3.3 | 101 |
| 144 | The RCK Domain of the KtrAB K ⁺ Transporter: Multiple Conformations of an Octameric Ring. <i>Cell</i> , 2006, 126, 1147-1159. | 28.9 | 78 |

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| 145 | CCD detectors. , 2006, , 148-153. | | 0 |
| 146 | Macromolecular phasing. Physics Today, 2006, 59, 46-52. | 0.3 | 10 |
| 147 | Solution of protein crystallographic structures by high-pressure cryocooling and noble-gas phasing. Acta Crystallographica Section D: Biological Crystallography, 2006, 62, 687-694. | 2.5 | 26 |
| 148 | Analog pixel array detectors. Journal of Synchrotron Radiation, 2006, 13, 110-119. | 2.4 | 29 |
| 149 | Multilayer X-ray optics at CHESS. Journal of Synchrotron Radiation, 2006, 13, 204-210. | 2.4 | 45 |
| 150 | Development of confocal X-ray fluorescence (XRF) microscopy at the Cornell high energy synchrotron source. Applied Physics A: Materials Science and Processing, 2006, 83, 235-238. | 2.3 | 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. Synchrotron Radiation News, 2006, 19, 30-35. | 0.8 | 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. Review of Scientific Instruments, 2006, 77, 113301. | 1.3 | 21 |
| 154 | Energy recovery LINAC: A next generation source for inelastic X-ray scattering. Journal of Physics and Chemistry of Solids, 2005, 66, 2310-2312. | 4.0 | 5 |
| 155 | Direct Access to Bicontinuous Skeletal Inorganic Plumber's Nightmare Networks from Block Copolymers. Angewandte Chemie - International Edition, 2005, 44, 1226-1229. | 13.8 | 60 |
| 156 | High-pressure cooling of protein crystals without cryoprotectants. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 881-890. | 2.5 | 103 |
| 157 | Crystallographic data collection using a 0.22% bandwidth multilayer. Journal of Synchrotron Radiation, 2005, 12, 345-348. | 2.4 | 8 |
| 158 | Area x-ray detector based on a lens-coupled charge-coupled device. Review of Scientific Instruments, 2005, 76, 081301. | 1.3 | 16 |
| 159 | Cooperative water filling of a nonpolar protein cavity observed by high-pressure crystallography and simulation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 16668-16671. | 7.1 | 186 |
| 160 | Capsaicin Regulates Voltage-Dependent Sodium Channels by Altering Lipid Bilayer Elasticity. Molecular Pharmacology, 2005, 68, 680-689. | 2.3 | 196 |
| 161 | Generation dependent mesophase behavior in extended amphiphilic dendrons in the shape of macromolecular dumbbells. Chemical Communications, 2005, , 2143. | 4.1 | 2 |
| 162 | Formation of homogeneous unilamellar liposomes from an interdigitated matrix. Biochimica Et Biophysica Acta - Biomembranes, 2005, 1668, 117-125. | 2.6 | 22 |

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