

# Howard A Padmore

## List of Publications by Year in descending order

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238  
papers

9,657  
citations

50170

46  
h-index

42291

92  
g-index

239  
all docs

239  
docs citations

239  
times ranked

9121  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physically and chemically smooth cesium-antimonide photocathodes on single crystal strontium titanate substrates. Applied Physics Letters, 2022, 120, .	1.5	5
2	6000 lines/mm blazed grating for a high-resolution x-ray spectrometer. Optics Express, 2022, 30, 28783.	1.7	5
3	Highly efficient ultra-low blaze angle multilayer grating. Optics Express, 2021, 29, 16676.	1.7	3
4	Simulations of applications using diaboloid mirrors. Journal of Synchrotron Radiation, 2021, 28, 1041-1049.	1.0	6
5	Diaboloidal mirrors: algebraic solution and surface shape approximations. Journal of Synchrotron Radiation, 2021, 28, 1031-1040.	1.0	6
6	Importance of bulk excitations and coherent electron-photon-phonon scattering in photoemission from PbTe(111): <i>Ab initio</i> theory with experimental comparisons. Physical Review B, 2021, 104, .	1.1	4
7	Spin waves excitation at micron-sized, anisotropy modified regions in amorphous Fe <sub>80</sub> B <sub>20</sub> stripes: Local properties and inter-regions coupling. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115258.	1.7	6
8	Low blaze angle gratings for x-ray and EUV applications. , 2021, , .		0
9	Ultracold Electrons via Near-Threshold Photoemission from Single-Crystal Cu(100). Physical Review Letters, 2020, 125, 054801.	2.9	35
10	A design of resonant inelastic X-ray scattering (RIXS) spectrometer for spatial- and time-resolved spectroscopy. Journal of Synchrotron Radiation, 2020, 27, 695-707.	1.0	10
11	An ultrahigh-resolution soft x-ray microscope for quantitative analysis of chemically heterogeneous nanomaterials. Science Advances, 2020, 6, .	4.7	47
12	Development of a 3-D energy-momentum analyzer for meV-scale energy electrons. Review of Scientific Instruments, 2019, 90, 053902.	0.6	8
13	Precise control of the blaze angle of x-ray diffraction gratings via planarization and plasma etching. , 2019, , .		0
14	Three-dimensional localization of nanoscale battery reactions using soft X-ray tomography. Nature Communications, 2018, 9, 921.	5.8	107
15	Hartmann characterization of the PEEM-3 aberration-corrected X-ray photoemission electron microscope. Ultramicroscopy, 2018, 188, 77-84.	0.8	4
16	Nanoscale Visualization of Magnetic Contrasts with Soft X-ray Spectro-Ptychography at the Advanced Light Source. Microscopy and Microanalysis, 2018, 24, 530-531.	0.2	5
17	Brightness of femtosecond nonequilibrium photoemission in metallic photocathodes at wavelengths near the photoemission threshold. Journal of Applied Physics, 2018, 124, .	1.1	15
18	The COSMIC Imaging Beamline at the Advanced Light Source: a new facility for spectro-microscopy of nano-materials. Microscopy and Microanalysis, 2018, 24, 8-11.	0.2	12

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19	Ultra-low blaze angle gratings for synchrotron and free electron laser applications. Optics Express, 2018, 26, 22011.	1.7	11
20	Near-edge X-ray refraction fine structure microscopy. Applied Physics Letters, 2017, 110, .	1.5	39
21	Near atomically smooth alkali antimonide photocathode thin films. Journal of Applied Physics, 2017, 121, .	1.1	47
22	Modeling quantum yield, emittance, and surface roughness effects from metallic photocathodes. Journal of Applied Physics, 2017, 122, .	1.1	9
23	Spontaneous formation of highly periodic nano-ripples in inclined deposition of Mo/Si multilayers. Journal of Applied Physics, 2017, 122, .	1.1	7
24	One-step model of photoemission from single-crystal surfaces. Physical Review B, 2017, 95, .	1.1	13
25	Reduction of Intrinsic Electron Emittance from Photocathodes Using Ordered Crystalline Surfaces. Physical Review Letters, 2017, 118, 164802.	2.9	16
26	Synchrotron x-ray study of a low roughness and high efficiency $K_{2}CsSb$ photocathode during film growth. Journal Physics D: Applied Physics, 2017, 50, 205303.	1.3	15
27	Synthesis and x-ray characterization of sputtered bi-alkali antimonide photocathodes. APL Materials, 2017, 5, 116104.	2.2	15
28	Large area nanoimprint enables ultra-precise x-ray diffraction gratings. Optics Express, 2017, 25, 23334.	1.7	15
29	Ptychographic Imaging of Nano-Materials at the Advanced Light Source with the Nanosurveyor Instrument. Journal of Physics: Conference Series, 2017, 849, 012028.	0.3	15
30	Nanosurveyor 2: A Compact Instrument for Nano-Tomography at the Advanced Light Source. Journal of Physics: Conference Series, 2017, 849, 012047.	0.3	13
31	Temperature-dependent quantum efficiency degradation of K-Cs-Sb bialkali antimonide photocathodes grown by a triple-element codeposition method. Physical Review Accelerators and Beams, 2017, 20, .	0.6	21
32	Full size x-ray grating fabrication using large area nanoimprint. , 2017, , .		1
33	Innovative diffraction gratings for high-resolution resonant inelastic soft x-ray scattering spectroscopy. AIP Conference Proceedings, 2016, , .	0.3	1
34	Multiplexed high resolution soft x-ray RIXS. AIP Conference Proceedings, 2016, , .	0.3	3
35	Real-time data-intensive computing. AIP Conference Proceedings, 2016, , .	0.3	10
36	X-ray diffraction gratings: Precise control of ultra-low blaze angle via anisotropic wet etching. Applied Physics Letters, 2016, 109, .	1.5	21

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37	Refraction effects in soft x-ray multilayer blazed gratings. <i>Optics Express</i> , 2016, 24, 11334.	1.7	19
38	High efficiency diffraction grating for EUV lithography beamline monochromator. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
39	Bi-alkali antimonide photocathode growth: An X-ray diffraction study. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	19
40	Soft X-ray Ptychographic Imaging and Morphological Quantification of Calcium Silicate Hydrates (Ca-Si-H). <i>Journal of the American Ceramic Society</i> , 2015, 98, 4090-4095.	1.9	38
41	Thermal limit to the intrinsic emittance from metal photocathodes. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	38
42	Dependence on Crystal Size of the Nanoscale Chemical Phase Distribution and Fracture in $\text{Li}_x\text{FePO}_4$ . <i>Nano Letters</i> , 2015, 15, 4282-4288.	4.5	99
43	Advanced environmental control as a key component in the development of ultrahigh accuracy <i>ex situ</i> metrology for x-ray optics. <i>Optical Engineering</i> , 2015, 54, 104104.	0.5	30
44	A novel system for measurement of the transverse electron momentum distribution from photocathodes. <i>Review of Scientific Instruments</i> , 2015, 86, 015103.	0.6	20
45	High-order multilayer coated blazed gratings for high resolution soft x-ray spectroscopy. <i>Optics Express</i> , 2015, 23, 4771.	1.7	29
46	Tests of photocathodes for high repetition rate x-ray FELs at the APEX facility at LBNL. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
47	Multilayer-coated blazed grating with variable line spacing and a variable blaze angle. <i>Optics Letters</i> , 2014, 39, 6134.	1.7	9
48	Direct observation of bi-alkali antimonide photocathodes growth via <i>in operando</i> x-ray diffraction studies. <i>APL Materials</i> , 2014, 2, .	2.2	32
49	A multiplexed high-resolution imaging spectrometer for resonant inelastic soft X-ray scattering spectroscopy. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 736-743.	1.0	37
50	A new x-ray optics laboratory (XROL) at the ALS: mission, arrangement, metrology capabilities, performance, and future plans. <i>Proceedings of SPIE</i> , 2014, , .	0.8	19
51	Study of bi-alkali photocathode growth on glass by X-ray techniques for fast timing response photomultipliers. <i>Proceedings of SPIE</i> , 2014, , .	0.8	1
52	Enhancement of diffraction efficiency via higher-order operation of a multilayer blazed grating. <i>Optics Letters</i> , 2014, 39, 3157.	1.7	44
53	Chemical composition mapping with nanometre resolution by soft X-ray microscopy. <i>Nature Photonics</i> , 2014, 8, 765-769.	15.6	371
54	Variable line spacing diffraction grating fabricated by direct write lithography for synchrotron beamline applications. , 2014, , .		2

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55	Control of surface mobility for conformal deposition of MoSi multilayers on saw-tooth substrates. Applied Surface Science, 2013, 284, 575-580.	3.1	19
56	Surface-Plasmon Resonance-Enhanced Multiphoton Emission of High-Brightness Electron Beams from a Nanostructured Copper Cathode. Physical Review Letters, 2013, 110, 074801.	2.9	88
57	In situ fine tuning of bendable soft x-ray mirrors using a lateral shearing interferometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 710, 82-86.	0.7	10
58	Real time evolution of antimony deposition for high performance alkali photocathode development. Proceedings of SPIE, 2013, , .	0.8	1
59	Methodology for optimal in situ alignment and setting of bendable optics for nearly diffraction-limited focusing of soft x-rays. Optical Engineering, 2013, 52, 033603.	0.5	17
60	Fundamental photoemission brightness limit from disorder induced heating. New Journal of Physics, 2013, 15, 103024.	1.2	27
61	Fabrication of x-ray gratings by direct write maskless lithography. Proceedings of SPIE, 2013, , .	0.8	6
62	A stigmatic ultraviolet-visible monochromator for use with a high brightness laser driven plasma light source. Review of Scientific Instruments, 2013, 84, 085114.	0.6	9
63	Plasmon-Enhanced Photocathode for High Brightness and High Repetition Rate X-Ray Sources. Physical Review Letters, 2013, 110, 076802.	2.9	74
64	Metrology for the Advancement of X-ray Optics at the ALS. Synchrotron Radiation News, 2013, 26, 4-12.	0.2	6
65	Bendable Kirkpatrick-Baez mirrors for the ALS micro-diffraction beamline 12.3.2: optimal tuning and alignment for multiple focusing geometries. Journal of Physics: Conference Series, 2013, 425, 152004.	0.3	3
66	Development of near atomically perfect diffraction gratings for EUV and soft x-rays with very high efficiency and resolving power. Journal of Physics: Conference Series, 2013, 425, 152006.	0.3	7
67	Development of coherent scattering and diffractive imaging and the COSMIC facility at the Advanced Light Source. Journal of Physics: Conference Series, 2013, 425, 192011.	0.3	9
68	Collective behavior of impedance matched plasmonic nanocavities. Optics Express, 2012, 20, 7685.	1.7	20
69	Ultra-high efficiency multilayer blazed gratings through deposition kinetic control. Optics Letters, 2012, 37, 1628.	1.7	25
70	Soft x-ray scattering facility at the Advanced Light Source with real-time data processing and analysis. Review of Scientific Instruments, 2012, 83, 045110.	0.6	420
71	Tunable plasmonic nanostructures for light trapping and strong field enhancement at the metal surface. , 2012, , .		0
72	Methodology for optimal in situ alignment and setting of bendable optics for diffraction-limited focusing of soft x-rays. , 2012, , .		4

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73	Conformal growth of Mo/Si multilayers on grating substrates using collimated ion beam sputtering. Journal of Applied Physics, 2012, 111, 093521.	1.1	26
74	Plasmon resonance tuning in metallic nanocavities. Scientific Reports, 2012, 2, 933.	1.6	36
75	Advanced Light Source Update. Synchrotron Radiation News, 2012, 25, 25-30.	0.2	6
76	Controlled Orientation of Block Copolymers on Defect-Free Faceted Surfaces. Advanced Materials, 2012, 24, 4278-4283.	11.1	32
77	Plasmonic light trapping in nanostructured metal surfaces. Applied Physics Letters, 2011, 98, .	1.5	63
78	A 10,000 groove/mm multilayer coated grating for EUV spectroscopy. Optics Express, 2011, 19, 6320.	1.7	55
79	Roughening and smoothing behavior of Al/Zr multilayers grown on flat and saw-tooth substrates. Proceedings of SPIE, 2011, , .	0.8	8
80	An experimental apparatus for diffraction-limited soft x-ray nano-focusing. , 2011, , .		5
81	Development of in situ, at-wavelength metrology for soft X-ray nano-focusing. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 160-162.	0.7	12
82	Fabrication and characterization of ultra-high resolution multilayer-coated blazed gratings. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 649, 156-159.	0.7	5
83	Light trapping in plasmonic nanocavities on metal surfaces. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2011, 29, 06FF01.	0.6	11
84	A low emittance and high efficiency visible light photocathode for high brightness accelerator-based X-ray light sources. Applied Physics Letters, 2011, 99, 034103.	1.5	54
85	Photocathode performance improvement by plasmonic light trapping in nanostructured metal surfaces. , 2011, , .		1
86	Ultra-high Resolution Optics for EUV and Soft X-ray Inelastic Scattering. , 2010, , .		2
87	A Soft X-ray Spectrometer using a Highly Dispersive Multilayer Grating. , 2010, , .		5
88	Elliptically Bent X-Ray Mirrors with Active Temperature Stabilization. X-Ray Optics and Instrumentation, 2010, 2010, 1-9.	0.7	16
89	A grazing incidence x-ray streak camera for ultrafast, single-shot measurements. Applied Physics Letters, 2010, 96, 134102.	1.5	26
90	Resonant Soft X-ray Scattering of Polymers with a 2D Detector: Initial Results and System Developments at the Advanced Light Source. IOP Conference Series: Materials Science and Engineering, 2010, 14, 012016.	0.3	24

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91	A SAXS/WAXS/GISAXS Beamline with Multilayer Monochromator. Journal of Physics: Conference Series, 2010, 247, 012007.	0.3	522
92	Compressive phase contrast tomography. Proceedings of SPIE, 2010, , .	0.8	10
93	Time-resolved demagnetization of Co <sub>2</sub> MnSi observed using x-ray magnetic circular dichroism and an ultrafast streak camera. Journal of Physics Condensed Matter, 2010, 22, 156003.	0.7	4
94	Photon Science at the ALS for Sustainable Energy. Synchrotron Radiation News, 2010, 23, 8-15.	0.2	0
95	High-efficiency 5000 lines/mm multilayer-coated blazed grating for extreme ultraviolet wavelengths. Optics Letters, 2010, 35, 2615.	1.7	42
96	High-efficiency multilayer blazed gratings for EUV and soft x-rays: recent developments. Proceedings of SPIE, 2010, , .	0.8	15
97	A dedicated superbend x-ray microdiffraction beamline for materials, geo-, and environmental sciences at the advanced light source. Review of Scientific Instruments, 2009, 80, 035108.	0.6	161
98	A fast, direct x-ray detection charge-coupled device. Review of Scientific Instruments, 2009, 80, 083302.	0.6	86
99	5000 groove/mm multilayer-coated blazed grating with 33% efficiency in the 3rd order in the EUV wavelength range. Proceedings of SPIE, 2009, , .	0.8	6
100	Optical path function calculation for an incoming cylindrical wave. , 2009, , .		2
101	Fabrication and characterization of a new high density Sc/Si multilayer sliced grating. Proceedings of SPIE, 2008, , .	0.8	12
102	Surface and bulk contribution to Cu(111) quantum efficiency. Applied Physics Letters, 2008, 93, 183505.	1.5	15
103	New Strategic Plan Takes the ALS into the Future. AIP Conference Proceedings, 2007, , .	0.3	1
104	An Energy-Stabilized Varied-Line-Space-Monochromator Undulator Beam Line for PEEM Illumination and Magnetic Circular Dichroism. AIP Conference Proceedings, 2007, , .	0.3	4
105	The SLS Optics Beamline. AIP Conference Proceedings, 2007, , .	0.3	1
106	The Advanced Light Source (ALS) Slicing Undulator Beamline. AIP Conference Proceedings, 2007, , .	0.3	15
107	An Ultrafast X-ray Detection System for the Study of Magnetization Dynamics. AIP Conference Proceedings, 2007, , .	0.3	0
108	Progress on PEEM3 " An Aberration Corrected X-Ray Photoemission Electron Microscope at the ALS. AIP Conference Proceedings, 2007, , .	0.3	8

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109	An x-ray streak camera with high spatio-temporal resolution. Applied Physics Letters, 2007, 91, .	1.5	47
110	Numerical study of coulomb scattering effects on electron beam from a nano-tip. , 2007, , .		2
111	Technical Report: Recent Major Improvements to the ALS Sector 5 Macromolecular Crystallography Beamlines. Synchrotron Radiation News, 2007, 20, 23-30.	0.2	2
112	Element-specific spin and orbital momentum dynamics of Fe <sup>2+</sup> /Gd multilayers. Applied Physics Letters, 2007, 90, 162503.	1.5	37
113	Development of an ultrahigh-resolution diffraction grating for soft x-rays. , 2007, , .		6
114	Ultrafast magnetization dynamics studies using an x-ray streak camera. , 2005, , .		1
115	High spatial resolution stress measurements using synchrotron based scanning X-ray microdiffraction with white or monochromatic beam. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 399, 92-98.	2.6	51
116	A beamline for high-pressure studies at the Advanced Light Source with a superconducting bending magnet as the source. Journal of Synchrotron Radiation, 2005, 12, 650-658.	1.0	139
117	An ultra-fast x-ray streak camera for the study of magnetization dynamics. , 2005, 5920, 73.		10
118	An x-ray photoemission electron microscope using an electron mirror aberration corrector for the study of complex materials. Journal of Physics Condensed Matter, 2005, 17, S1339-S1350.	0.7	45
119	Dispersive x-ray absorption spectroscopy with gratings above 2 keV. Review of Scientific Instruments, 2005, 76, 063102.	0.6	10
120	Correction and alignment strategies for the beam separator of the photoemission electron microscope 3 (PEEM3). Review of Scientific Instruments, 2005, 76, 023302.	0.6	18
121	A Simple High Performance Beamline for Small Molecule Chemical Crystallography. AIP Conference Proceedings, 2004, , .	0.3	8
122	SIBYLS â€” a SAXS and Protein Crystallography Beamline at the ALS. AIP Conference Proceedings, 2004, , .	0.3	1
123	ALS Beamline 6.0 For Ultrafast X-ray Absorption Spectroscopy. AIP Conference Proceedings, 2004, , .	0.3	7
124	Picosecond soft x-ray absorption measurement of the photoinduced insulator-to-metal transition inVO2. Physical Review B, 2004, 69, .	1.1	75
125	Shear at Twin Domain Boundaries inYBa2Cu3O7âˆ’x. Physical Review Letters, 2004, 92, 216105.	2.9	8
126	Characterization of CsI photocathodes at grazing incidence for use in a unit quantum efficiency x-ray streak camera. Review of Scientific Instruments, 2004, 75, 3131-3137.	0.6	19



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127	An Upgrade for the advanced Light source. <i>Synchrotron Radiation News</i> , 2004, 17, 46-51.	0.2	0
128	The Advanced Light Source Upgrade. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	0
129	New Implementation of an SX700 Undulator Beamline at the Advanced Light Source. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	15
130	Comprehensive Electron-optical Characterization of an X-ray Photoemission Electron Microscope. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	1
131	P-sec Time-Resolved Microscopy of Magnetic Structures Using X-PEEM. <i>AIP Conference Proceedings</i> , 2004, , .	0.3	3
132	Beamline 10.3.2 at ALS: a hard X-ray microprobe for environmental and materials sciences. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 239-247.	1.0	245
133	Suite of three protein crystallography beamlines with single superconducting bend magnet as the source. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 447-455.	1.0	83
134	X-ray microdiffraction: local stress distributions in polycrystalline and epitaxial thin films. <i>Microelectronic Engineering</i> , 2004, 75, 117-126.	1.1	21
135	Metal-insulator transitions in an expanding metallic fluid: particle formation during femtosecond laser ablation. <i>Chemical Physics</i> , 2004, 299, 171-181.	0.9	13
136	Laser pump and X-ray probe surface photovoltage spectroscopy on Si(111). <i>Journal of Modern Optics</i> , 2004, 51, 2805-2811.	0.6	7
137	Use of extended and prepared reference objects in experimental Fourier transform x-ray holography. <i>Applied Physics Letters</i> , 2004, 85, 2454-2456.	1.5	32
138	Vortex Core-Driven Magnetization Dynamics. <i>Science</i> , 2004, 304, 420-422.	6.0	562
139	Characterization of CsI photocathodes at grazing incidence for use in a unit quantum efficiency x-ray streak camera. , 2004, , .		1
140	Solving non-periodic structures using direct methods: phasing diffuse scattering. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2003, 59, 255-261.	0.3	12
141	Scanning X-ray microdiffraction with submicrometer white beam for strain/stress and orientation mapping in thin films. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 137-143.	1.0	245
142	Metal-Insulator Transitions in an Expanding Metallic Fluid: Particle Formation Kinetics. <i>Physical Review Letters</i> , 2003, 90, 236102.	2.9	41
143	Molecular-Scale Speciation of Zn and Ni in Soil Ferromanganese Nodules from Loess Soils of the Mississippi Basin. <i>Environmental Science &amp; Technology</i> , 2003, 37, 75-80.	4.6	171
144	Coherent X-ray diffractive imaging: applications and limitations. <i>Optics Express</i> , 2003, 11, 2344.	1.7	106

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145	Early stage of plastic deformation in thin films undergoing electromigration. Journal of Applied Physics, 2003, 94, 3757-3761.	1.1	55
146	Local Plasticity of Al Thin Films as Revealed by X-Ray Microdiffraction. Physical Review Letters, 2003, 90, 096102.	2.9	55
147	Mesoscale x-ray diffraction measurement of stress relaxation associated with buckling in compressed thin films. Applied Physics Letters, 2003, 83, 51-53.	1.5	23
148	X-ray photoemission electron microscopy, a tool for the investigation of complex magnetic structures (invited). Review of Scientific Instruments, 2002, 73, 1362-1366.	0.6	76
149	Electromigration-induced plastic deformation in passivated metal lines. Applied Physics Letters, 2002, 81, 4168-4170.	1.5	82
150	High spatial resolution grain orientation and strain mapping in thin films using polychromatic submicron x-ray diffraction. Applied Physics Letters, 2002, 80, 3724-3726.	1.5	85
151	Modeling the acceleration field and objective lens for an aberration corrected photoemission electron microscope. Review of Scientific Instruments, 2002, 73, 1514-1517.	0.6	15
152	A SOFT X-RAY UNDULATOR BEAMLINE AT THE ADVANCED LIGHT SOURCE WITH CIRCULAR AND VARIABLE LINEAR POLARIZATION FOR THE SPECTROSCOPY AND MICROSCOPY OF MAGNETIC MATERIALS. Surface Review and Letters, 2002, 09, 549-554.	0.5	20
153	Deciphering Ni sequestration in soil ferromanganese nodules by combining X-ray fluorescence, absorption, and diffraction at micrometer scales of resolution. American Mineralogist, 2002, 87, 1494-1499.	0.9	102
154	Submicron x-ray diffraction and its applications to problems in materials and environmental science. Review of Scientific Instruments, 2002, 73, 1369-1372.	0.6	168
155	A new bend-magnet beamline for scanning transmission X-ray microscopy at the Advanced Light Source. Journal of Synchrotron Radiation, 2002, 9, 254-257.	1.0	120
156	Variable linear polarization from an X-ray undulator. Journal of Synchrotron Radiation, 2002, 9, 270-274.	1.0	32
157	Synchrotron radiation excited total reflection X-ray fluorescence quantitative analysis of Si wafer by absolute fluorescence intensity calculation. Materials Letters, 2001, 49, 38-42.	1.3	1
158	Local Microstructure and Stress in Al(Cu) Thin Film Structures Studied by X-Ray Microdiffraction. Materials Research Society Symposia Proceedings, 2001, 673, 1.	0.1	6
159	<title>Femtosecond x-ray diffraction: experiments and limits</title>. , 2001, , .		36
160	A variable-included-angle plane-grating-monochromator on an undulator for spectroscopy and microscopy at the Advanced Light Source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 525-528.	0.7	4
161	Studies of the magnetic structure at the ferromagnet-antiferromagnet interface. Journal of Synchrotron Radiation, 2001, 8, 101-104.	1.0	1
162	Exploring the microscopic origin of exchange bias with photoelectron emission microscopy (invited). Journal of Applied Physics, 2001, 89, 7266-7268.	1.1	17

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163	A recirculating linac for ultrafast X-ray science. <i>Synchrotron Radiation News</i> , 2001, 14, 26-31.	0.2	7
164	Grain Orientation and Strain Measurements in Sub-Micron wide Passivated Individual Aluminum Test Structures. <i>Materials Research Society Symposia Proceedings</i> , 2000, 612, 881.	0.1	10
165	Synchrotron-based impurity mapping. <i>Journal of Crystal Growth</i> , 2000, 210, 395-400.	0.7	42
166	Direct observation of the alignment of ferromagnetic spins by antiferromagnetic spins. <i>Nature</i> , 2000, 405, 767-769.	13.7	441
167	Microtexture and Strain in Electroplated Copper Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 2000, 612, 1031.	0.1	15
168	Theory and practice of elliptically bent x-ray mirrors. <i>Optical Engineering</i> , 2000, 39, 2748.	0.5	92
169	Characterization of Conditions Required for X-Ray Diffraction Experiments with Protein Microcrystals. <i>Biophysical Journal</i> , 2000, 78, 3178-3185.	0.2	32
170	Observation of Antiferromagnetic Domains in Epitaxial Thin Films. <i>Science</i> , 2000, 287, 1014-1016.	6.0	307
171	Time-Resolved X-Ray Diffraction from Coherent Phonons during a Laser-Induced Phase Transition. <i>Physical Review Letters</i> , 2000, 84, 111-114.	2.9	345
172	Photoelectron bremsstrahlung spectrum in synchrotron radiation excited total reflection x-ray fluorescence analysis of silicon wafers. <i>Journal of Applied Physics</i> , 1999, 86, 902-908.	1.1	46
173	Investigation of magnetic materials using a new x-ray photoemission electron microscope. <i>Synchrotron Radiation News</i> , 1999, 12, 17-20.	0.2	2
174	Images of the Antiferromagnetic Structure of a NiO(100) Surface by Means of X-Ray Magnetic Linear Dichroism Spectromicroscopy. <i>Physical Review Letters</i> , 1999, 83, 1862-1865.	2.9	198
175	Photoemission electron microscope for the study of magnetic materials. <i>Review of Scientific Instruments</i> , 1999, 70, 3973-3981.	0.6	187
176	The macromolecular crystallography facility at the advanced light source. <i>Synchrotron Radiation News</i> , 1998, 11, 18-25.	0.2	8
177	Principles of X-Ray Magnetic Dichroism Spectromicroscopy. <i>Surface Review and Letters</i> , 1998, 05, 1297-1308.	0.5	188
178	Imaging spectroscopic analysis at the advanced light source. <i>Synchrotron Radiation News</i> , 1998, 11, 5-22.	0.2	8
179	<title>Progress toward submicron hard x-ray imaging using elliptically bent mirrors and its applications</title>. , 1998, , .		4
180	<title>Bend magnet beamline for scanning transmission x-ray microscopy at the Advanced Light Source</title>. , 1998, 3449, 12.		3

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