

Gene E Ice

List of Publications by Year in descending order

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52
papers

2,023
citations

361413

20
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

1640
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>In-situ</i> synchrotron micro-diffraction study of surface, interface, grain structure, and strain/stress evolution during Sn whisker/hillock formation. <i>Journal of Applied Physics</i> , 2016, 119, .	2.5	11
2	Beyond ensemble averages. <i>Nature Materials</i> , 2015, 14, 657-658.	27.5	0
3	Diffraction Analysis of Defects: State of the Art. , 2014, , 1-52.		3
4	X-ray Laue Diffraction Microscopy in 3D at the Advanced Photon Source. , 2014, , 53-81.		8
5	Microbeam, timing and signal-resolved studies of nuclear materials with synchrotron X-ray sources. <i>Journal of Nuclear Materials</i> , 2012, 425, 233-237.	2.7	5
6	The Race to X-ray Microbeam and Nanobeam Science. <i>Science</i> , 2011, 334, 1234-1239.	12.6	265
7	Plenary Special Lectures. <i>Microscopy and Microanalysis</i> , 2011, 17, 32-34.	0.4	0
8	Hard X-ray nano-focusing with Montel mirror optics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 649, 169-171.	1.6	29
9	Development and applications of a two-dimensional tip-tilting stage system with nanoradian-level positioning resolution. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 649, 114-117.	1.6	8
10	Achromatic nested Kirkpatrickâ€“Baez mirror optics for hard X-ray nanofocusing. <i>Journal of Synchrotron Radiation</i> , 2011, 18, 575-579.	2.4	42
11	Texture crossover: Trace from multiple grains to a subgrain. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 3-10.	5.6	8
12	The role of crystal orientation and surface proximity in the self-similar behavior of deformed Cu single crystals. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 28-31.	5.6	10
13	Fatigue-induced reversible/irreversible structural-transformations in a Ni-based superalloy. <i>International Journal of Plasticity</i> , 2010, 26, 1124-1137.	8.8	35
14	3D x-ray microprobe investigation of local dislocation densities and elastic strain gradients in a NiAl-Mo composite and exposed Mo micropillars as a function of prestrain. <i>Journal of Materials Research</i> , 2010, 25, 199-206.	2.6	18
15	Nested mirrors for x-rays and neutrons. , 2009, , .		6
16	Tutorial on x-ray microLaue diffraction. <i>Materials Characterization</i> , 2009, 60, 1191-1201.	4.4	64
17	X-ray microdiffraction and EBSD study of FSP induced structural/phase transitions in a Ni-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 524, 10-19.	5.6	18
18	Cyclic-loading-induced accumulation of geometrically necessary dislocations near grain boundaries in an Ni-based superalloy. <i>Jom</i> , 2009, 61, 53-58.	1.9	14

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19	Design challenges and performance of nested neutron mirrors for microfocusing on SNAP. Journal of Applied Crystallography, 2009, 42, 1004-1008.	4.5	20
20	Polychromatic microdiffraction characterization of defect gradients in severely deformed materials. Micron, 2009, 40, 28-36.	2.2	29
21	At the limit of polychromatic microdiffraction. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2009, 524, 3-9.	5.6	23
22	The Future of Spatially-Resolved Polychromatic Neutron and X-Ray Microdiffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 3058-3064.	2.2	17
23	Slip-System-Related Dislocation Study from In-Situ Neutron Measurements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 3079-3088.	2.2	27
24	Plastic behavior of a nickel-based alloy under monotonic-tension and low-cycle-fatigue loading. International Journal of Plasticity, 2008, 24, 1440-1456.	8.8	58
25	Neutron and X-ray diffraction studies and cohesive interface model of the fatigue crack deformation behavior. Philosophical Magazine Letters, 2008, 88, 553-565.	1.2	20
26	Mutiscale Plastic Deformation near a Fatigue Crack from Diffraction. Solid State Phenomena, 2007, 129, 151-156.	0.3	3
27	X-Ray Study of Pd ₄₀ Cu ₃₀ Ni ₁₀ P ₂₀ Bulk Metallic Glass Brazing Filler for Ti-6Al-7Nb Alloy. Materials Science Forum, 2007, 539-543, 1983-1987.	0.3	1
28	Nondestructive three-dimensional characterization of grain boundaries by X-ray crystal microscopy. Ultramicroscopy, 2005, 103, 199-204.	1.9	20
29	Kirkpatrick-Baez microfocusing optics for thermal neutrons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 539, 312-320.	1.6	40
30	Adapting polychromatic X-ray microdiffraction techniques to high-pressure research: energy scan approach. Journal of Synchrotron Radiation, 2005, 12, 608-617.	2.4	19
31	Diffuse X-ray scattering from tiny sample volumes. Zeitschrift Fur Kristallographie - Crystalline Materials, 2005, 220, 1076-1081.	0.8	3
32	Short focal length Kirkpatrick-Baez mirrors for a hard x-ray nanoprobe. Review of Scientific Instruments, 2005, 76, 113701.	1.3	105
33	Diffuse X-ray scattering from tiny sample volumes. Zeitschrift Für Kristallographie, 2005, 220, .	1.1	3
34	Three-Dimensional Micron-Resolution X-Ray Laue Diffraction Measurement of Thermal Grain-Evolution in Aluminum. Materials Science Forum, 2004, 467-470, 1373-1378.	0.3	17
35	2D and 3D X-Ray Structural Microscopy Using Submicron-Resolution Laue Microdiffraction. Materials Research Society Symposia Proceedings, 2004, 840, Q7.1.1.	0.1	1
36	Three-Dimensional X-Ray Structural Microscopy Using Polychromatic Microbeams. MRS Bulletin, 2004, 29, 170-176.	3.5	25

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37	The three-dimensional X-ray crystal microscope: A new tool for materials characterization. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1963-1967.	2.2	53
38	At the limit of nondispersive micro- and nanofocusing mirror optics. , 2004, , .		3
39	X-ray microdiffraction study of growth modes and crystallographic tilts in oxide films on metal substrates. Nature Materials, 2003, 2, 487-492.	27.5	114
40	Application of the 3D X-Ray Crystal Microscope to Study Mesoscale Structure of Materials. Materials Research Society Symposia Proceedings, 2003, 779, 5361.	0.1	0
41	Profile coating for KB mirror applications at the Advanced Photon Source. , 2002, 4782, 104.		10
42	Mirrors for nanofocusing x-ray beams. , 2002, , .		4
43	Small-displacement monochromator for microdiffraction experiments. Review of Scientific Instruments, 2000, 71, 2001-2006.	1.3	33
44	Elliptical x-ray microprobe mirrors by differential deposition. Review of Scientific Instruments, 2000, 71, 2635-2639.	1.3	123
45	Automated indexing for texture and strain measurement with broad-bandpass x-ray microbeams. Journal of Applied Physics, 1999, 86, 5249-5255.	2.5	241
46	<title>Monochromators for small cross-section x-ray beams from high heat flux synchrotron sources</title>. , 1996, 2856, 226.		3
47	Vanishing effect in post-collision interaction during photon-excited Coster-Kronig decay. Physical Review A, 1987, 35, 3966-3969.	2.5	19
48	Threshold Excitation of Short-Lived Atomic Inner-Shell Hole States with Synchrotron Radiation. Physical Review Letters, 1985, 54, 1142-1145.	7.8	119
49	Atomic inner-shell level energies determined by absorption spectrometry with synchrotron radiation. Physical Review A, 1980, 22, 520-528.	2.5	155
50	Observation of the Auger Resonant Raman Effect. Physical Review Letters, 1980, 45, 1937-1940.	7.8	170
51	3D Micron-Resolution Laue Diffraction. , 0, , 353-370.		0
52	The 3D X-Ray Crystal Microscope: An Unprecedented Tool for ICME. , 0, , 183-188.		0