

Phil Fraundorf

List of Publications by Year in descending order

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97
papers

1,114
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430442

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97
all docs

97
docs citations

97
times ranked

571
citing authors

#	ARTICLE	IF	CITATIONS
1	DFT study of unlayered graphene solid formation, in liquid carbon droplets at low pressures. MRS Advances, 2021, 6, 203-208.	0.5	1
2	The rates of unlayered graphene formation in a supercooled carbon melt at low pressure. MRS Advances, 2021, 6, 713.	0.5	1
3	Fraction Crystalline from Electron Powder Patterns of Unlayered Graphene in Solidified Carbon Rain. Microscopy and Microanalysis, 2020, 26, 2838-2840.	0.2	4
4	Task-Layer Multiplicity as a Measure of Community Level Health. Complexity, 2019, 2019, 1-8.	0.9	0
5	Characterizing Unlayered-Graphene in Homemade CoreRim Carbon Raindrops. Microscopy and Microanalysis, 2018, 24, 2056-2057.	0.2	0
6	Some novel uses for three-dimensional data from SPM and stereo SEM. Microscopy and Microanalysis, 2017, 23, 1178-1179.	0.2	0
7	On-line Digital-darkfield TEM Determination of Nanocrystal 3D-lattices. Microscopy and Microanalysis, 2017, 23, 238-239.	0.2	13
8	Laboratory evidence of slow-cooling for carbon droplets in red-giant atmospheres. Microscopy and Microanalysis, 2017, 23, 2192-2193.	0.2	1
9	Exploring Boltzmann-Factor Distributions of Precipitation-Nuclei in the TEM.. Microscopy and Microanalysis, 2016, 22, 942-943.	0.2	1
10	Single-Slice Nanoworlds Online. Microscopy and Microanalysis, 2016, 22, 1442-1443.	0.2	3
11	Analogs for Unlayered-Graphene Droplet-Formation in Stellar Atmospheres.. Microscopy and Microanalysis, 2016, 22, 1816-1817.	0.2	2
12	Characterization of nanostructured pristine and Fe- and V-doped titania synthesized by atomization and bubbling. Journal of Industrial and Engineering Chemistry, 2014, 20, 558-563.	2.9	5
13	Digital Darkfield Analysis of Lattice Fringe Images with ImageJ. Microscopy and Microanalysis, 2014, 20, 824-825.	0.2	0
14	RGB Analysis of Wedge Angles Around a Perforation in Silicon. Microscopy and Microanalysis, 2014, 20, 826-827.	0.2	0
15	Orthogonal random layer lattices or random offset phase transition?. Microscopy and Microanalysis, 2012, 18, 1260-1261.	0.2	0
16	HREM/SAED evidence for template-nucleation of c-ZrO ₂ /C inclusions in ZrB ₂ . Microscopy and Microanalysis, 2012, 18, 1944-1945.	0.2	0
17	Fast periodicity-analysis with 4spots and ImageJ. Microscopy and Microanalysis, 2012, 18, 1256-1257.	0.2	0
18	Ultrafine sputter-deposited Pt nanoparticles for triiodide reduction in dye-sensitized solar cells: impact of nanoparticle size, crystallinity and surface coverage on catalytic activity. Nanotechnology, 2012, 23, 485405.	1.3	40

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19	Single-walled carbon nanotube formation on iron oxide catalysts in diffusion flames. Journal of Nanoparticle Research, 2010, 12, 2125-2133.	0.8	20
20	Thermal roots of correlation-based complexity. Complexity, 2008, 13, 18-26.	0.9	5
21	A simplex model for layered niche networks. Complexity, 2008, 13, 29-39.	0.9	0
22	Quantum 1/f Biochemical Detection Limits in THz Signatures Revealed by Scanning Tunneling Microscopy Currents. IEEE Sensors Journal, 2008, 8, 1020-1027.	2.4	0
23	Study of Au Nanoparticle Catalyzed Growth Processes of ZnO Nanowires. Microscopy and Microanalysis, 2008, 14, 200-201.	0.2	0
24	Synthesis and Characterization of Srilankite Nanowires. Journal of Nanoscience and Nanotechnology, 2008, 8, 1481-1488.	0.9	5
25	Structural fingerprinting in the transmission electron microscope: overview and opportunities to implement enhanced strategies for nanocrystal identification. Zeitschrift Fur Kristallographie - Crystalline Materials, 2007, 222, 634-645.	0.4	12
26	Synthesis of single-walled carbon nanotubes in oxy-fuel inverse diffusion flames with online diagnostics. Proceedings of the Combustion Institute, 2007, 31, 1865-1872.	2.4	32
27	Online Size Characterization of Nanofibers and Nanotubes. , 2007, , 212-245.		3
28	Lattice Fringe Signatures of Epitaxy on Nanotubes. Microscopy and Microanalysis, 2006, 12, 664-665.	0.2	0
29	Nanoworld Webquests with Peer Review. Microscopy and Microanalysis, 2006, 12, 1700-1701.	0.2	1
30	Darkfield Brightfield and Energy-Filtered Nanotube Image Profiles. Microscopy and Microanalysis, 2006, 12, 1686-1687.	0.2	0
31	Digital Darkfield Tableaus. Microscopy and Microanalysis, 2006, 12, 1010-1011.	0.2	4
32	Picometer Scale Differences of Lattice Spacing In TEM Images. Microscopy and Microanalysis, 2006, 12, 1008-1009.	0.2	1
33	Coherence Effects in Electron Diffraction from Presolar Graphenes. Microscopy and Microanalysis, 2006, 12, 596-597.	0.2	0
34	Image-based nanocrystallography with online database support. , 2006, , .		1
35	Infra red quantum dot photolithography. Journal of Sol-Gel Science and Technology, 2006, 40, 101-107.	1.1	10
36	Cross-fringe Versus Single-fringe Probabilities. Microscopy and Microanalysis, 2005, 11, .	0.2	1

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37	Identifying unknown nanocrystals by fringe fingerprinting in two dimensions and free-access crystallographic databases. , 2005, 6000, 206.		1
38	Image-based nanocrystallography by means of transmission electron goniometry. Nonlinear Analysis: Theory, Methods & Applications, 2005, 63, e1323-e1331.	0.6	4
39	Spiral Powder Overlays. Microscopy Today, 2005, 13, 8-11.	0.2	0
40	Making sense of nanocrystal lattice fringes. Journal of Applied Physics, 2005, 98, 114308.	1.1	20
41	Crystal Structure Visualizations in Three Dimensions with Database Support. Materials Research Society Symposia Proceedings, 2005, 909, 1.	0.1	1
42	Tubular Reactor Synthesis of Doped Nanostructured Titanium Dioxide and Its Enhanced Activation by Coronas and Soft X-rays. Industrial & Engineering Chemistry Research, 2005, 44, 5213-5220.	1.8	22
43	Goniometry of Direct Lattice Vectors Supporting Students' Comprehension of Crystallographic Core Concepts and Demonstrating Image-Based Nanocrystallography. Materials Research Society Symposia Proceedings, 2004, 827, 291.	0.1	0
44	Spiral Powder Overlays. Microscopy and Microanalysis, 2004, 10, 1356-1357.	0.2	5
45	Fringe-Covariance "Fingerprinting" of Nanoparticle Lattice Images. Microscopy and Microanalysis, 2004, 10, 1262-1263.	0.2	3
46	Powder Patterns from Nanocrystal Lattice Images. Microscopy and Microanalysis, 2004, 10, 1254-1255.	0.2	3
47	Digital Darkfield Decompositions. Microscopy and Microanalysis, 2004, 10, 300-301.	0.2	9
48	Students as Nanodetectives in a Variety of Introductory Science Classes. Microscopy and Microanalysis, 2004, 10, 1564-1565.	0.2	0
49	Lattice parameters from direct-space images at two tilts. Ultramicroscopy, 2003, 94, 245-262.	0.8	20
50	Heat capacity in bits. American Journal of Physics, 2003, 71, 1142-1151.	0.3	6
51	Ten Nanometer Surface Intrusions in Room-Temperature Silicon. Electrochemical and Solid-State Letters, 2002, 5, G83.	2.2	5
52	The Core Structure of Presolar Graphite Onions. Astrophysical Journal, 2002, 578, L153-L156.	1.6	19
53	Uncertainties in Stereo Lattice Imaging. Microscopy and Microanalysis, 2001, 7, 270-271.	0.2	0
54	Fringe Visibility Maps. Microscopy and Microanalysis, 2001, 7, 272-273.	0.2	4

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55	Lattice Fringe Visibility after Tilt. <i>Microscopy and Microanalysis</i> , 2000, 6, 1040-1041.	0.2	3
56	Probability of Seeing (001) Cross-Fringes in a Random Cubic Nanocrystal Image. <i>Microscopy and Microanalysis</i> , 2000, 6, 1038-1039.	0.2	3
57	The 3d Parameters Of A (Nano)Crystal From Lattice Images At Two Tilts. <i>Microscopy and Microanalysis</i> , 1999, 5, 188-189.	0.2	2
58	An Investigation of the Limit of Detection and the Scattering Dependence of the Optical Precipitate Profiler (OPP). <i>Materials Research Society Symposia Proceedings</i> , 1998, 510, 627.	0.1	4
59	High-Resolution Transmission Electron Microscope Analysis of Tungsten Carbide Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 1998, 520, 217.	0.1	2
60	Evidence for a raised rim on pits in mica induced by keV/nucleon ions. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1995, 53, 390-391.	0.0	0
61	Arms (One vs Two) and the Physicist. <i>Physics Today</i> , 1994, 47, 14-15.	0.3	1
62	Quantitative footprints, in size & number density, of a TEM search for defects in VLSI silicon. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1994, 52, 850-851.	0.0	0
63	The Microstructure of Fe ₇ C ₃ Formed at 300Å°C by Plasma Enhanced Chemical Vapor Deposition (PECVD). <i>Materials Research Society Symposia Proceedings</i> , 1993, 313, 691.	0.1	1
64	Finding noise-related artifacts in scanned-probe microscope images. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1993, 51, 524-525.	0.0	0
65	<i>in-situ</i> measurements of scanned probe tip shape with etched nuclear tracks. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1993, 51, 528-529.	0.0	0
66	Bayesian removal of noise for increased sensitivity in vector pattern recognition lattice imaging of interfaces. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1993, 51, 994-995.	0.0	0
67	Algorithms for Bayesian background-subtracted Fourier darkfield imaging. <i>Ultramicroscopy</i> , 1991, 37, 72-78.	0.8	2
68	The instrument response function in air-based scanning tunneling microscopy. <i>Ultramicroscopy</i> , 1991, 37, 125-129.	0.8	7
69	TEM study of B- and Er-containing dispersoids in rapidly solidified dispersion-strengthened titanium and titanium aluminide alloys. <i>Ultramicroscopy</i> , 1991, 37, 310-317.	0.8	13
70	Localizing periodicity in near-field images. <i>Physical Review Letters</i> , 1990, 64, 1031-1034.	2.9	5
71	Finding the Good Stuff in Hrem Images. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , 1990, 48, 542-543.	0.0	0
72	Stardust in the TEM. <i>Ultramicroscopy</i> , 1989, 27, 401-411.	0.8	41

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73	Iron doped amorphous hydrogenated carbon nitride?. Solid State Communications, 1989, 71, 801-803.	0.9	3
74	Fourier transform "darkfield" techniques. Proceedings Annual Meeting Electron Microscopy Society of America, 1989, 47, 122-123.	0.0	2
75	The reduction of dislocations in oxygen implanted silicon "insulator layers by sequential implantation and annealing. Journal of Applied Physics, 1988, 63, 4933-4936.	1.1	70
76	Determining the 3D lattice parameters of nanometer-sized single crystals from images. Ultramicroscopy, 1987, 22, 225-229.	0.8	19
77	Octahedral inclusions showing evidence of crystallinity in Czochralski silicon. Journal of Crystal Growth, 1986, 76, 383-387.	0.7	2
78	Roles for A Precursor Oxide Phase in The Siting, Shaping, and Shrinking of Oxygen Precipitates. Materials Research Society Symposia Proceedings, 1985, 59, 281.	0.1	1
79	The Effects of Thermal History during Growth on O Precipitation in Czochralski Silicon. Journal of the Electrochemical Society, 1985, 132, 1701-1704.	1.3	34
80	Clustering of oxygen atoms around carbon in silicon. Journal of Applied Physics, 1985, 58, 4049-4055.	1.1	35
81	Infrared absorption study on carbon and oxygen behavior in Czochralski silicon crystals. Applied Physics Letters, 1985, 46, 941-943.	1.5	60
82	Carbon Compounds in Interplanetary Dust: Evidence for Formation by Heterogeneous Catalysis. Science, 1984, 223, 56-58.	6.0	78
83	Discovery of Nucler Tracks in Interplanetary Dust. Science, 1984, 226, 1432-1434.	6.0	122
84	An inventory of particles from stratospheric collectors: Extraterrestrial and otherwise. Journal of Geophysical Research, 1982, 87, A403.	3.3	8
85	The survival of solar flare tracks in interplanetary dust silicates on deceleration in the Earth's atmosphere. Journal of Geophysical Research, 1982, 87, A409.	3.3	26
86	Electron diffraction patterns intermediate along the continuum between single crystal and "powder"™. Micron (1969), 1982, 13, 49-53.	0.1	0
87	Interplanetary dust in the transmission electron microscope: diverse materials from the early solar system. Geochimica Et Cosmochimica Acta, 1981, 45, 915-943.	1.6	86
88	Infrared spectroscopy of interplanetary dust in the laboratory. Icarus, 1981, 47, 368-380.	1.1	13
89	Stereo analysis of electron diffraction from known crystals. Ultramicroscopy, 1981, 7, 203-205.	0.8	9
90	Stereo analysis of single crystal electron diffraction data. Ultramicroscopy, 1981, 6, 227-235.	0.8	14

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91	Stereo analysis of single crystal electron diffraction data. Ultramicroscopy, 1981, 6, 227-235.	0.8	14
92	Noble Gases in Stratospheric Dust Particles: Confirmation of Extraterrestrial Origin. Science, 1981, 211, 383-386.	6.0	71
93	Optical spectroscopy of interplanetary dust collected in the Earth's stratosphere. Nature, 1980, 286, 866-868.	13.7	7
94	The distribution of temperature maxima for micrometeorites decelerated in the Earth's atmosphere without melting. Geophysical Research Letters, 1980, 7, 765-768.	1.5	52
95	The detection of latent nuclear particle tracks in some common minerals with conventional TEM. Proceedings Annual Meeting Electron Microscopy Society of America, 1978, 36, 480-481.	0.0	0
96	EXPERIMENTAL CONSTRAINTS ON THE EXISTENCE OF SUPERHEAVY ELEMENTS IN ALLENDE ACID RESIDUES. , 1978, , 204-205.		0
97	Search for fission tracks from superheavy elements in Allende. Earth and Planetary Science Letters, 1977, 37, 285-295.	1.8	16