

Nan Yao

List of Publications by Year in descending order

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152
papers

12,155
citations

31902

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all docs

153
docs citations

153
times ranked

15843
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a linked-loop quantum state in a topological magnet. <i>Nature</i> , 2022, 604, 647-652.	13.7	18
2	Direct visualization of floppy two-dimensional DNA origami using cryogenic electron microscopy. <i>IScience</i> , 2022, 25, 104373.	1.9	5
3	Magnetic Nanosheets via Chemical Exfoliation of $K_2MnSn_2S_2$. <i>Chemistry of Materials</i> , 2022, 34, 5084-5093.	3.2	2
4	Evidence of a room-temperature quantum spin Hall edge state in a higher-order topological insulator. <i>Nature Materials</i> , 2022, 21, 1111-1115.	13.3	32
5	The Effects of Chromophore Halogenation on the Stability of UV-Absorbing Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2100225.	10.2	15
6	Identification of topological magnetic order in a Weyl line ferromagnet. <i>Microscopy and Microanalysis</i> , 2021, 27, 214-215.	0.2	0
7	Manipulation of single atoms and molecules by electron probe and mechanical force. <i>Microscopy and Microanalysis</i> , 2021, 27, 220-221.	0.2	1
8	Structure-Function Dynamic Relations of Asphaltenes. <i>Energy & Fuels</i> , 2021, 35, 13610-13632.	2.5	14
9	Ex Situ and In Situ Thermal Transformations of M-50 Pitch Revealed by Non-contact Atomic Force Microscopy. <i>Energy & Fuels</i> , 2021, 35, 18210-18219.	2.5	10
10	The Role of Methyl Groups in the Early Stage of Thermal Polymerization of Polycyclic Aromatic Hydrocarbons Revealed by Molecular Imaging. <i>Energy & Fuels</i> , 2021, 35, 2224-2233.	2.5	21
11	Kinetics and Evolution of Magnetism in Soft-Chemical Synthesis of $CrSe_2$ from $KCrSe_2$. <i>Chemistry of Materials</i> , 2021, 33, 8070-8078.	3.2	11
12	Signatures of Weyl Fermion Annihilation in a Correlated Kagome Magnet. <i>Physical Review Letters</i> , 2021, 127, 256403.	2.9	17
13	High-yield monolayer graphene grids for near-atomic resolution cryoelectron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 1009-1014.	3.3	84
14	Quantum-limit Chern topological magnetism in $TbMn_6Sn_6$. <i>Nature</i> , 2020, 583, 533-536.	13.7	253
15	Fermion-boson many-body interplay in a frustrated kagome paramagnet. <i>Nature Communications</i> , 2020, 11, 4003.	5.8	35
16	Conformational Analysis of Nonplanar Archipelago Structures on a Cu (111) Surface by Molecular Imaging. <i>Energy & Fuels</i> , 2020, 34, 12135-12141.	2.5	13
17	Petroleum pitch: Exploring a 50-year structure puzzle with real-space molecular imaging. <i>Carbon</i> , 2020, 161, 456-465.	5.4	50
18	Soft Chemical Synthesis of $HCrS_2$: An Antiferromagnetic Material with Alternating Amorphous and Crystalline Layers. <i>Journal of the American Chemical Society</i> , 2019, 141, 15634-15640.	6.6	31

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19	Humidity and Strain Rate Determine the Extent of Phase Shift in the Piezoresistive Response of PEDOT:PSS. ACS Applied Materials & Interfaces, 2019, 11, 16888-16895.	4.0	12
20	Influence of Bulky Organoammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Light-Emitting Devices. Advanced Functional Materials, 2018, 28, 1802060.	7.8	76
21	Anisotropic crystallization in solution processed chalcogenide thin film by linearly polarized laser. Applied Physics Letters, 2017, 110, .	1.5	11
22	Electrical Stress Influences the Efficiency of CH ₃ NH ₃ PbI ₃ Perovskite Light Emitting Devices. Advanced Materials, 2017, 29, 1605317.	11.1	105
23	Photoluminescence of Functionalized Germanium Nanocrystals Embedded in Arsenic Sulfide Glass. ACS Applied Materials & Interfaces, 2017, 9, 18911-18917.	4.0	10
24	PMN-PT nanostructures for energy scavenging. Semiconductor Science and Technology, 2017, 32, 063001.	1.0	4
25	Stable synthesis of few-layered boron nitride nanotubes by anodic arc discharge. Scientific Reports, 2017, 7, 3075.	1.6	50
26	<i>In Situ</i> Preparation of Metal Halide Perovskite Nanocrystal Thin Films for Improved Light-Emitting Devices. ACS Nano, 2017, 11, 3957-3964.	7.3	151
27	Mixed-Halide Perovskites with Stabilized Bandgaps. Nano Letters, 2017, 17, 6863-6869.	4.5	165
28	Extremely Low Operating Current Resistive Memory Based on Exfoliated 2D Perovskite Single Crystals for Neuromorphic Computing. ACS Nano, 2017, 11, 12247-12256.	7.3	286
29	Pairing of near-ultraviolet solar cells with electrochromic windows for smart management of the solar spectrum. Nature Energy, 2017, 2, .	19.8	195
30	Epitaxial Cu ₃ Ge Thin Film: Fabrication, Structure, and Property. , 2016, , .		0
31	Work function of Cu ₃ Ge thin film. Microscopy and Microanalysis, 2016, 22, 1654-1655.	0.2	1
32	Understanding Polymorph Transformations in Core-Chlorinated Naphthalene Diimides and their Impact on Thin-Film Transistor Performance. Advanced Functional Materials, 2016, 26, 2357-2364.	7.8	42
33	Atomic-Scale Visualization of Quasiparticle Interference on a Type-II Weyl Semimetal Surface. Physical Review Letters, 2016, 117, 266804.	2.9	56
34	Energy scavenging based on a single-crystal PMN-PT nanobelt. Scientific Reports, 2016, 6, 22513.	1.6	24
35	Structural variations of the cathode deposit in the carbon arc. Carbon, 2016, 105, 490-495.	5.4	27
36	In-situ synthesis and defect evolution of single-crystal piezoelectric nanoparticles. Nano Energy, 2016, 28, 195-205.	8.2	9

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37	Fermi arc electronic structure and Chern numbers in the type-II Weyl semimetal candidate $W\text{Te}$. Physical Review B, 2016, 94, .	11.1	115
38	Nanoscale electrical properties of epitaxial Cu ₃ Ge film. Scientific Reports, 2016, 6, 28818.	1.6	8
39	Nanomedicine as a non-invasive strategy for drug delivery across the blood brain barrier. International Journal of Pharmaceutics, 2016, 515, 331-342.	2.6	65
40	Atomic-Scale Visualization of Quantum Interference on a Weyl Semimetal Surface by Scanning Tunneling Microscopy. ACS Nano, 2016, 10, 1378-1385.	7.3	112
41	Laser ablation of germanium in arsenic sulfide solution. , 2016, , .		0
42	Decagonite, Al ₇₁ Ni ₂₄ Fe ₅ , a quasicrystal with decagonal symmetry from the Khatyrka CV3 carbonaceous chondrite. American Mineralogist, 2015, 100, 2340-2343.	0.9	61
43	Nanocrystalline Ni ₅ P ₄ : a hydrogen evolution electrocatalyst of exceptional efficiency in both alkaline and acidic media. Energy and Environmental Science, 2015, 8, 1027-1034.	15.6	435
44	Mechanical and hyperthermic properties of magnetic nanocomposites for biomedical applications. Journal of the Mechanical Behavior of Biomedical Materials, 2015, 49, 118-128.	1.5	10
45	Natural quasicrystal with decagonal symmetry. Scientific Reports, 2015, 5, 9111.	1.6	81
46	Fabrication of epitaxial Cu ₃ Ge on sapphire with controlled crystallinity and planar defects. Journal of Alloys and Compounds, 2015, 641, 238-243.	2.8	6
47	Advances in windowed gas cells for in-situ TEM studies. Nano Energy, 2015, 13, 735-756.	8.2	51
48	Advances in sealed liquid cells for in-situ TEM electrochemical investigation of lithium-ion battery. Nano Energy, 2015, 11, 196-210.	8.2	75
49	Fabrication of uniformly dispersed nanoparticle-doped chalcogenide glass. Applied Physics Letters, 2014, 105, 261906.	1.5	14
50	Steinhardtite, a new body-centered-cubic allotropic form of aluminum from the Khatyrka CV3 carbonaceous chondrite. American Mineralogist, 2014, 99, 2433-2436.	0.9	37
51	Au@carbon yolk-shell nanostructures via one-step core-shell template. Chemical Communications, 2014, 50, 478-480.	2.2	116
52	One-pot Stober route yields template for Ag@carbon yolk-shell nanostructures. Chemical Communications, 2014, 50, 9056.	2.2	51
53	Wireless biomechanical power harvesting via flexible magnetostrictive ribbons. Energy and Environmental Science, 2014, 7, 2243.	15.6	7
54	A one-step and scalable production route to metal nanocatalyst supported polymer nanospheres via flash nanoprecipitation. Journal of Materials Chemistry A, 2014, 2, 17286-17290.	5.2	30

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55	Impact-induced shock and the formation of natural quasicrystals in the early solar system. <i>Nature Communications</i> , 2014, 5, 4040.	5.8	71
56	Mesoscopic Interactions and Species Coexistence in Evolutionary Game Dynamics of Cyclic Competitions. <i>Scientific Reports</i> , 2014, 4, 7486.	1.6	74
57	Plasma-Etching of the Organic Layer in Nacre. <i>Soft Nanoscience Letters</i> , 2014, 04, 63-68.	0.8	2
58	Flexible Piezoelectric PMN-PT Nanowire-Based Nanocomposite and Device. <i>Nano Letters</i> , 2013, 13, 2393-2398.	4.5	290
59	Robustness of chimera states in complex dynamical systems. <i>Scientific Reports</i> , 2013, 3, 3522.	1.6	49
60	Biotemplated Synthesis of PZT Nanowires. <i>Nano Letters</i> , 2013, 13, 6197-6202.	4.5	35
61	Nanostructured Biomaterials and Their Applications. <i>Nanomaterials</i> , 2013, 3, 242-271.	1.9	19
62	Evidence for the extraterrestrial origin of a natural quasicrystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 1396-1401.	3.3	94
63	Fabrication and piezoelectric property of PMN-PT nanofibers. <i>Nano Energy</i> , 2012, 1, 602-607.	8.2	36
64	In Situ Mechanical and Electrical Characterization of Individual TiO_2 Nanofibers Using a Nanomanipulator System. <i>Scanning</i> , 2012, 34, 341-346.	0.7	5
65	PMN-PT Nanowires with a Very High Piezoelectric Constant. <i>Nano Letters</i> , 2012, 12, 2238-2242.	4.5	76
66	Rutherford backscattering oscillation in scanning helium-ion microscopy. <i>Journal of Applied Physics</i> , 2011, 109, 064311.	1.1	9
67	Energy Harvesting Based on PZT Nanofibers. <i>Green Energy and Technology</i> , 2011, , 425-438.	0.4	8
68	Icosahedrite, $\text{Al}_63\text{Cu}_{24}\text{Fe}_{13}$, the first natural quasicrystal. <i>American Mineralogist</i> , 2011, 96, 928-931.	0.9	165
69	Ligand Effects and Synthesis of NaYF_4 Based Up and Downconversion Colloidal Nanophosphors. <i>ACS Symposium Series</i> , 2011, , 71-85.	0.5	2
70	Pegylated Composite Nanoparticles Containing Upconverting Phosphors and <i>meso</i> -Tetraphenyl porphine (TPP) for Photodynamic Therapy. <i>Advanced Functional Materials</i> , 2011, 21, 2488-2495.	7.8	172
71	Adjustable stiffness of individual piezoelectric nanofibers by electron beam polarization. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	8
72	In Situ Electrical Characterization of Single Nanofibers Using a Nanomanipulator in an FIB/SEM Microscope. <i>Microscopy and Microanalysis</i> , 2010, 16, 1800-1801.	0.2	1

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73	Synthesis of Stable Block-Copolymer-Protected NaYF ₄ :Yb ³⁺ , Er ³⁺ Up-Converting Phosphor Nanoparticles. Chemistry of Materials, 2010, 22, 311-318.	3.2	137
74	Phase transition induced formation of hollow structures in colloidal lanthanide-doped NaYF ₄ nanocrystals. Journal of Nanoparticle Research, 2010, 12, 1429-1438.	0.8	21
75	Anomalous Raman Scattering of Colloidal Yb ³⁺ , Er ³⁺ Codoped NaYF ₄ Nanophosphors and Dynamic Probing of the Upconversion Luminescence. Advanced Functional Materials, 2010, 20, 3530-3537.	7.8	91
76	An investigation of the thermal sensitivity and stability of the ¹² -NaYF ₄ :Yb,Er upconversion nanophosphors. Journal of Applied Physics, 2010, 107, 054901.	1.1	62
77	Ultralow Superharmonic Resonance for Functional Nanowires. Nano Letters, 2010, 10, 852-859.	4.5	19
78	The Hidden Effects of Particle Shape and Criteria for Evaluating the Upconversion Luminescence of the Lanthanide Doped Nanophosphors. Journal of Physical Chemistry C, 2010, 114, 2452-2461.	1.5	103
79	1.6 V Nanogenerator for Mechanical Energy Harvesting Using PZT Nanofibers. Nano Letters, 2010, 10, 2133-2137.	4.5	808
80	Natural Quasicrystals. Science, 2009, 324, 1306-1309.	6.0	243
81	Potential measurement from a single lead zirconate titanate nanofiber using a nanomanipulator. Applied Physics Letters, 2009, 94, .	1.5	80
82	Organic-Inorganic interfaces and spiral growth in nacre. Journal of the Royal Society Interface, 2009, 6, 367-376.	1.5	50
83	Stabilizing cyanosols: amorphous cyanide bridged transition metal polymer nanoparticles. Journal of Materials Chemistry, 2009, 19, 8846.	6.7	8
84	Deformation and fracture in micro-tensile tests of freestanding electrodeposited nickel thin films. Scripta Materialia, 2008, 58, 1062-1065.	2.6	19
85	Superior imaging resolution in scanning helium-ion microscopy: A look at beam-sample interactions. Journal of Applied Physics, 2008, 104, .	1.1	61
86	Characterization of the Organic-Inorganic Interface of Abalone Shell Nacre. Microscopy and Microanalysis, 2008, 14, 24-25.	0.2	1
87	Synthesis of monodisperse hexagonal NaYF ₄ :Yb, Ln (Ln = Er, Ho and Tm) upconversion nanocrystals in TOPO. Nanotechnology, 2007, 18, 445607.	1.3	127
88	Introduction to the focused ion beam system. , 2007, , 1-30.		5
89	Interaction of ions with matter. , 2007, , 31-66.		3
90	Gas assisted ion beam etching and deposition. , 2007, , 67-86.		2

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91	High-density FIB-SEM 3D nanotomography: with applications of real-time imaging during FIB milling. , 2007, , 146-186.		3
92	Preparation for physico-chemical analysis. , 2007, , 215-249.		3
93	In-situ sample manipulation and imaging. , 2007, , 250-267.		2
94	Micro-machining and mask repair. , 2007, , 268-294.		2
95	Focused ion beam systems as a multifunctional tool for nanotechnology. , 2007, , 355-390.		2
96	Nanoscale and submicron fatigue crack growth in nickel microbeams. Acta Materialia, 2007, 55, 4305-4315.	3.8	15
97	Europium-doped yttrium silicate nanophosphors prepared by flame synthesis. Materials Research Bulletin, 2007, 42, 1440-1449.	2.7	48
98	Crystal growth via spiral motion in abalone shell nacre. Journal of Materials Research, 2006, 21, 1939-1946.	1.2	34
99	SiGe quantum dot single-hole transistor fabricated by atomic force microscope nanolithography and silicon epitaxial-regrowth. Journal of Applied Physics, 2006, 100, 094317.	1.1	3
100	Nanostructure of Er ³⁺ doped silicates. Microscopy (Oxford, England), 2005, 54, 309-315.	0.7	2
101	Flame Synthesis of Y ₂ O ₃ :Eu Nanophosphors Using Ethanol as Precursor Solvents. Journal of Materials Research, 2005, 20, 2960-2968.	1.2	79
102	Supported Superparamagnetic Pd/Co Alloy Nanoparticles Prepared from a Silica/Cyanogel Co-gel. Chemistry of Materials, 2005, 17, 6216-6218.	3.2	34
103	Synthesis of self-assembled nanoscale structures by focused ion-beam induced deposition. Scripta Materialia, 2004, 50, 915-919.	2.6	13
104	Wear mechanism operating in W-DLC coatings in contact with machined steel surfaces. Surface and Coatings Technology, 2004, 179, 306-313.	2.2	28
105	Broad, flat fluorescence emissions from nanostructured rare-earth doped silicates. , 2004, , .		1
106	Surface topography evolution and fatigue fracture of polysilicon. Journal of Materials Science, 2003, 38, 4145-4155.	1.7	8
107	Foreign object damage in a thermal barrier system: mechanisms and simulations. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 352, 221-231.	2.6	90
108	A method for in situ measurement of the residual stress in thin films by using the focused ion beam. Thin Solid Films, 2003, 443, 71-77.	0.8	101

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109	Large-grain polycrystalline silicon films with low intragranular defect density by low-temperature solid-phase crystallization without underlying oxide. <i>Journal of Applied Physics</i> , 2002, 91, 2910-2915.	1.1	42
110	Spatially selective single-grain silicon films induced by hydrogen plasma seeding. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 818.	1.6	2
111	Polymer Characterization Using Electron Microscopes. , 2002, , .		0
112	High-Quality Manganese-Doped ZnSe Nanocrystals. <i>Nano Letters</i> , 2001, 1, 3-7.	4.5	782
113	Method for Supporting Platinum on Single-Walled Carbon Nanotubes for a Selective Hydrogenation Catalyst. <i>Chemistry of Materials</i> , 2001, 13, 733-737.	3.2	446
114	Barium Titanate Nanoparticles in Block Copolymer. <i>Langmuir</i> , 2001, 17, 7656-7663.	1.6	13
115	Plasticity Length Scale in LIGA Nickel MEMS Structures. <i>Materials Research Society Symposia Proceedings</i> , 2001, 687, 1.	0.1	3
116	Deformation mechanisms in nacre. <i>Journal of Materials Research</i> , 2001, 16, 2485-2493.	1.2	715
117	Identifying and Indexing Icosahedral Quasicrystals from Powder Diffraction Patterns. <i>Physical Review Letters</i> , 2001, 87, 275507.	2.9	31
118	Synthesis of CaCO ₃ Thin Films via a Bioinspired Strategy: Cooperative Template-Inhibition. <i>Microscopy and Microanalysis</i> , 2000, 6, 1070-1071.	0.2	0
119	Structural Details as Clues to Understanding Nacre Formation. <i>Microscopy and Microanalysis</i> , 2000, 6, 896-897.	0.2	1
120	An Amorphous to Crystalline Transition in the Formation of CaCO ₃ Thin Films. <i>Microscopy and Microanalysis</i> , 2000, 6, 1072-1073.	0.2	0
121	Molecular mechanics of binding in carbon-nanotube“polymer composites. <i>Journal of Materials Research</i> , 2000, 15, 2770-2779.	1.2	334
122	Silica Gels with Tunable Nanopores through Templating of the L3Phase. <i>Langmuir</i> , 2000, 16, 398-406.	1.6	37
123	Disorder“Order Transition in Mesoscopic Silica Thin Films. <i>Chemistry of Materials</i> , 2000, 12, 1536-1548.	3.2	50
124	Synthesis of Photonic Crystals for Optical Wavelengths from Semiconductor Quantum Dots. <i>Advanced Materials</i> , 1999, 11, 165-169.	11.1	355
125	Towards probing pentagons on carbon nanotube tips. <i>Surface Science</i> , 1999, 421, L150-L155.	0.8	11
126	Layer by layer imaging of diblock copolymer films with a scanning electron microscope. <i>Polymer</i> , 1998, 39, 2733-2744.	1.8	81

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127	Young's modulus of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 1998, 84, 1939-1943.	1.1	344
128	Biomimetic Synthesis of Macroscopic-Scale Calcium Carbonate Thin Films. Evidence for a Multistep Assembly Process. <i>Journal of the American Chemical Society</i> , 1998, 120, 11977-11985.	6.6	277
129	Depth Profiling Block Copolymer Microdomains. <i>Macromolecules</i> , 1998, 31, 2185-2189.	2.2	100
130	Radial compression and controlled cutting of carbon nanotubes. <i>Journal of Chemical Physics</i> , 1998, 109, 2509-2512.	1.2	60
131	Carbon nanotube caps as springs: Molecular dynamics simulations. <i>Physical Review B</i> , 1998, 58, 12649-12651.	1.1	29
132	Structure and Oxidation Patterns of Carbon Nanotubes. <i>Journal of Materials Research</i> , 1998, 13, 2432-2437.	1.2	110
133	TEM Studies of Single and Double Microdomain Layers of Block Copolymer. <i>Microscopy and Microanalysis</i> , 1998, 4, 818-819.	0.2	1
134	Self-Assembled and Micro-Patterned Mesoscopic Thin Films. <i>Microscopy and Microanalysis</i> , 1998, 4, 730-731.	0.2	0
135	Titanium Dioxide-Surfactant Mesophases and Ti-TMS1. <i>Chemistry of Materials</i> , 1997, 9, 2690-2693.	3.2	113
136	Porphyrim Amphiphiles as Templates for the Nucleation of Calcium Carbonate. <i>Journal of the American Chemical Society</i> , 1997, 119, 5449-5450.	6.6	82
137	Nanoscale Patterning of Barium Titanate on Block Copolymers. <i>Langmuir</i> , 1997, 13, 3866-3870.	1.6	34
138	Formation of a Silicate L3 Phase with Continuously Adjustable Pore Sizes. <i>Science</i> , 1997, 277, 552-556.	6.0	140
139	HRTEM of Initial Oxidation of Carbon Nanotube Tips. <i>Microscopy and Microanalysis</i> , 1997, 3, 421-422.	0.2	1
140	Sampling Depth Controlled by Accelerating Voltage in a Low Voltage SEM. <i>Microscopy and Microanalysis</i> , 1997, 3, 1241-1242.	0.2	4
141	Mesoscopic Silica Thin Films Via Template-Assisted Self-Assembly. <i>Microscopy and Microanalysis</i> , 1997, 3, 395-396.	0.2	2
142	Microscopic patterning of orientated mesoscopic silica through guided growth. <i>Nature</i> , 1997, 390, 674-676.	13.7	393
143	Nanolithographic templates from diblock copolymer thin films. <i>Applied Physics Letters</i> , 1996, 68, 2586-2588.	1.5	186
144	Biomimetic Pathways for Assembling Inorganic Thin Films. <i>Science</i> , 1996, 273, 892-898.	6.0	740

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145	Investigation of Diblock Copolymer thin film Morphology for Nanolithography. Materials Research Society Symposia Proceedings, 1996, 461, 179.	0.1	7
146	Observation of double line contrast in surface imaging. Microscopy Research and Technique, 1992, 20, 413-425.	1.2	8
147	Electron diffraction conditions and surface imaging in reflection electron microscopy. Ultramicroscopy, 1990, 33, 237-254.	0.8	16
148	Inelastic Electron Scattering and Total Reflectivity in RHEED. Proceedings Annual Meeting Electron Microscopy Society of America, 1990, 48, 392-393.	0.0	0
149	The parabolas and circles in RHEED patterns. Ultramicroscopy, 1989, 31, 149-157.	0.8	15
150	REM and REELS identifications of atomic terminations at $\hat{1}\pm$ -alumina (01 $\bar{1}$,,1) surface. Surface Science, 1989, 208, 533-549.	0.8	29
151	Convergence of the incident beam in reflection Electron Microscopy. Proceedings Annual Meeting Electron Microscopy Society of America, 1989, 47, 532-533.	0.0	0
152	The observation of surface resonance effects in RHEED patterns. Ultramicroscopy, 1988, 26, 189-194.	0.8	26