

Jian-Min Zuo

List of Publications by Year in descending order

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225
papers

9,405
citations

36271

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90
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229
all docs

229
docs citations

229
times ranked

12644
citing authors

#	ARTICLE	IF	CITATIONS
1	Atomic Resolution Imaging of a Carbon Nanotube from Diffraction Intensities. Science, 2003, 300, 1419-1421.	6.0	443
2	Nanobelt Self-Assembly from an Organic n-Type Semiconductor:Â Propoxyethyl-PTCDI. Journal of the American Chemical Society, 2005, 127, 10496-10497.	6.6	427
3	Direct observation of d-orbital holes and Cuâ€Cu bonding in Cu2O. Nature, 1999, 401, 49-52.	13.7	425
4	Coordination-dependent surface atomic contraction in nanocrystals revealed by coherent diffraction. Nature Materials, 2008, 7, 308-313.	13.3	331
5	Instability, intermixing and electronic structure at the epitaxial $\text{LaAlO}_3/\text{LaAlO}_3$ interface. Nature Materials, 2009, 8, 305-310.	13.3	331

#	ARTICLE	IF	CITATIONS
19	In _x Ga _{1-x} As Nanowires on Silicon: One-Dimensional Heterogeneous Epitaxy, Bandgap Engineering, and Photovoltaics. <i>Nano Letters</i> , 2011, 11, 4831-4838.	4.5	133
20	Automated structure factor refinement from convergent-beam patterns. <i>Ultramicroscopy</i> , 1991, 35, 185-196.	0.8	131
21	Bonding in GaAs. <i>Physical Review Letters</i> , 1988, 61, 353-356.	2.9	126
22	The theoretical charge density of silicon: experimental testing of exchange and correlation potentials. <i>Journal of Physics Condensed Matter</i> , 1997, 9, 7541-7561.	0.7	124
23	Facile Synthesis of Tadpole-like Nanostructures Consisting of Au Heads and Pd Tails. <i>Journal of the American Chemical Society</i> , 2007, 129, 15452-15453.	6.6	124
24	Growth of Au on Pt Icosahedral Nanoparticles Revealed by Low-Dose In Situ TEM. <i>Nano Letters</i> , 2015, 15, 2711-2715.	4.5	106
25	Charge ordering in magnetite at low temperatures. <i>Physical Review B</i> , 1990, 42, 8451-8464.	1.1	105
26	Structural Characterization of Pt [~] Pd and Pd [~] Pt Core [~] Shell Nanoclusters at Atomic Resolution. <i>Journal of the American Chemical Society</i> , 2009, 131, 8683-8689.	6.6	103
27	Highly Polarized and Self-Waveguided Emission from Single-Crystalline Organic Nanobelts. <i>Chemistry of Materials</i> , 2009, 21, 2930-2934.	3.2	99
28	Determination of interfacial atomic structure, misfits and energetics of $\hat{\Gamma}$ phase in Al [~] Cu [~] Mg [~] Ag alloy. <i>Acta Materialia</i> , 2014, 81, 501-511.	3.8	92
29	Collapse and stability of single- and multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2007, 18, 395703.	1.3	87
30	Dissolution Kinetics of Oxidative Etching of Cubic and Icosahedral Platinum Nanoparticles Revealed by <i>In Situ</i> Liquid Transmission Electron Microscopy. <i>ACS Nano</i> , 2017, 11, 1696-1703.	7.3	84
31	An Ion [~] Exchange Promoted Phase Transition in a Li [~] Excess Layered Cathode Material for High [~] Performance Lithium Ion Batteries. <i>Advanced Energy Materials</i> , 2015, 5, 1401937.	10.2	82
32	Sub-Ångstr [~] m-resolution diffractive imaging of single nanocrystals. <i>Nature Physics</i> , 2009, 5, 129-133.	6.5	81
33	Lattice and strain analysis of atomic resolution Z-contrast images based on template matching. <i>Ultramicroscopy</i> , 2014, 136, 50-60.	0.8	80
34	Advanced Transmission Electron Microscopy. , 2017, , .		80
35	Web-Based Electron Microscopy Application Software: Web-EMAPS. <i>Microscopy and Microanalysis</i> , 2004, 10, 1000-1001.	0.2	79
36	Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. <i>Nature Communications</i> , 2017, 8, 16070.	5.8	78

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37	Large dynamic range, parallel detection system for electron diffraction and imaging. Review of Scientific Instruments, 1988, 59, 2102-2105.	0.6	75
38	Nanoscale Spin-State Ordering in LaCoO ₃ Epitaxial Thin Films. Chemistry of Materials, 2014, 26, 2496-2501.	3.2	74
39	Binding energy of parallel carbon nanotubes. Applied Physics Letters, 2003, 83, 3570-3571.	1.5	71
40	Probing Interfacial Electronic Structures in Atomic Layer LaMnO ₃ and SrTiO ₃ Superlattices. Advanced Materials, 2010, 22, 1156-1160.	11.1	69
41	Electrical and microstructural properties of thermally annealed Ni/Au and Ni/Pt/Au Schottky contacts on AlGaIn/GaN heterostructures. Semiconductor Science and Technology, 2014, 29, 095005.	1.0	69
42	Growth and Phase Transformation of Nanometer-Sized Titanium Oxide Powders Produced by the Precipitation Method. Journal of the American Ceramic Society, 2004, 87, 473-479.	1.9	68
43	Synthesis, Internal Structure, and Formation Mechanism of Monodisperse Tin Sulfide Nanoplatelets. Journal of the American Chemical Society, 2015, 137, 9943-9952.	6.6	65
44	Electroplating lithium transition metal oxides. Science Advances, 2017, 3, e1602427.	4.7	62
45	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. Nature Electronics, 2021, 4, 653-663.	13.1	61
46	Electron detection characteristics of slow-scan CCD camera. Ultramicroscopy, 1996, 66, 21-33.	0.8	60
47	Ambient photodoping of p-type organic nanofibers: highly efficient photoswitching and electrical vapor sensing of amines. Chemical Communications, 2010, 46, 4127.	2.2	60
48	Double-helix structure in multiwall boron nitride nanotubes. Acta Crystallographica Section A: Foundations and Advances, 2005, 61, 533-541.	0.3	59
49	Structure and phase separation of Ag-Cu alloy thin films. Acta Materialia, 2007, 55, 1617-1628.	3.8	58
50	High Aspect Ratio $\text{In}_2\text{Ga}_2\text{O}_3$ Fin Arrays with Low-Interface Charge Density by Inverse Metal-Assisted Chemical Etching. ACS Nano, 2019, 13, 8784-8792.	7.3	57
51	Measurements of electron densities in solids: a real-space view of electronic structure and bonding in inorganic crystals. Reports on Progress in Physics, 2004, 67, 2053-2103.	8.1	54
52	Toward Superconducting Critical Current by Design. Advanced Materials, 2016, 28, 4593-4600.	11.1	53
53	Accurate Structure-Factor Phase Determination by Electron Diffraction in Noncentrosymmetric Crystals. Physical Review Letters, 1989, 62, 547-550.	2.9	52
54	Lamellar Phase Separation and Dynamic Competition in La _{0.23} Ca _{0.77} MnO ₃ . Physical Review Letters, 2005, 94, 147206.	2.9	52

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55	On the beam selection and convergence in the Bloch-wave method. <i>Ultramicroscopy</i> , 1995, 57, 375-383.	0.8	50
56	Direct measurement of transient electric fields induced by ultrafast pulsed laser irradiation of silicon. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	50
57	Chemical sensors based on randomly stacked graphene flakes. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	49
58	Solving protein nanocrystals by cryo-EM diffraction: Multiple scattering artifacts. <i>Ultramicroscopy</i> , 2015, 148, 87-93.	0.8	49
59	Direct Synthesis of H ₂ O ₂ on AgPt Octahedra: The Importance of Ag-Pt Coordination for High H ₂ O ₂ Selectivity. <i>ACS Catalysis</i> , 2018, 8, 2880-2889.	5.5	48
60	Fortran source listing for simulating three-dimensional convergent beam patterns with absorption by the Bloch wave method. <i>Journal of Electron Microscopy Technique</i> , 1989, 12, 29-55.	1.1	45
61	Performance of imaging plates for electron recording. <i>Ultramicroscopy</i> , 1996, 66, 35-47.	0.8	44
62	Anisotropic Strain-Induced Curvature in Type-II CdSe/CdTe Nanorod Heterostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 3286-3288.	6.6	43
63	Effect of Mn doping on charge density in $\hat{\Gamma}$ -TiAl by quantitative convergent beam electron diffraction. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1995, 72, 579-601.	0.7	42
64	The development of epitaxy of nanoclusters on lattice-mismatched substrates: Ag on $\hat{\Gamma}$ -Si surfaces. <i>Surface Science</i> , 2002, 520, 7-17.	0.8	41
65	Beam to String Transition of Vibrating Carbon Nanotubes Under Axial Tension. <i>Advanced Functional Materials</i> , 2009, 19, 1753-1758.	7.8	41
66	Atomic resolution mapping of interfacial intermixing and segregation in InAs/GaSb superlattices: A correlative study. <i>Journal of Applied Physics</i> , 2013, 113, 103511.	1.1	41
67	Effects of Particle Size on Mg ²⁺ Ion Intercalation into $\hat{\Gamma}$ -MnO ₂ Cathode Materials. <i>Nano Letters</i> , 2019, 19, 4712-4720.	4.5	41
68	Passivation Dynamics in the Anisotropic Deposition and Stripping of Bulk Magnesium Electrodes During Electrochemical Cycling. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18406-18414.	4.0	39
69	TEM based high resolution and low-dose scanning electron nanodiffraction technique for nanostructure imaging and analysis. <i>Micron</i> , 2015, 71, 39-45.	1.1	39
70	Ag-Pt Compositional Intermetallics Made from Alloy Nanoparticles. <i>Nano Letters</i> , 2016, 16, 6599-6603.	4.5	39
71	On the Holz contribution to stem lattice images formed using high-angle dark-field detectors. <i>Ultramicroscopy</i> , 1989, 31, 233-239.	0.8	38
72	Structure and chirality distribution of multiwalled boron nitride nanotubes. <i>Applied Physics Letters</i> , 2005, 86, 133110.	1.5	38

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73	Phase separation in the iron chalcogenide superconductor $\text{Fe}_{1-y}\text{Te}_x\text{Se}_{1-y}$. <i>New Journal of Physics</i> , 2011, 13, 053031.	1.2	37
74	Metastability and Structural Polymorphism in Noble Metals: The Role of Composition and Metal Atom Coordination in Mono- and Bimetallic Nanoclusters. <i>ACS Nano</i> , 2013, 7, 1542-1557.	7.3	37
75	Grain-boundary constraint and oxygen deficiency in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$: Application of the coincidence site lattice model to a non-cubic system. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994, 70, 969-984.	0.7	35
76	Temperature-independent giant dielectric response in transitional BaTiO_3 thin films. <i>Applied Physics Reviews</i> , 2020, 7, 011402.	5.5	35
77	Equilibrium shapes and triple line energy of epitaxial gold nanocrystals supported on TiO_2 . <i>Physical Review B</i> , 2010, 82, .	1.1	33
78	InGaAs/GaAs 3D architecture formation by strain-induced self-rolling with lithographically defined rectangular stripe arrays. <i>Journal of Crystal Growth</i> , 2008, 310, 2353-2358.	0.7	32
79	The Formation and Utility of Sub-Angstrom to Nanometer-Sized Electron Probes in the Aberration-Corrected Transmission Electron Microscope at the University of Illinois. <i>Microscopy and Microanalysis</i> , 2010, 16, 183-193.	0.2	32
80	Symmetry quantification and mapping using convergent beam electron diffraction. <i>Ultramicroscopy</i> , 2013, 124, 71-76.	0.8	32
81	Size- and Shape-Dependent Energetics of Nanocrystal Interfaces: Experiment and Simulation. <i>Physical Review Letters</i> , 2003, 90, 226104.	2.9	31
82	Visualizing Materials Chemistry at Atomic Resolution. <i>Analytical Chemistry</i> , 2010, 82, 2599-2607.	3.2	31
83	Textured crystallization of ultrathin hafnium oxide films on silicon substrate. <i>Applied Physics Letters</i> , 2007, 90, 161917.	1.5	30
84	Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. <i>Physical Review X</i> , 2016, 6, .	2.8	30
85	High-resolution strain measurement in shallow trench isolation structures using dynamic electron diffraction. <i>Applied Physics Letters</i> , 2004, 84, 2181-2183.	1.5	29
86	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018, 1, .	2.0	29
87	Thermal transport in layer-by-layer assembled polycrystalline graphene films. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	28
88	Electrical transport in small bundles of single-walled carbon nanotubes: Intertube interaction and effects of tube deformation. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	26
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91	Direct Observation of Interfacial Au Atoms on TiO ₂ in Three Dimensions. Nano Letters, 2015, 15, 2548-2554.	4.5	26
92	New Optical Absorption Bands in Atomic Layer Superlattices. Advanced Materials, 2010, 22, 1136-1139.	11.1	25
93	Colossal positive magnetoresistance in surface-passivated oxygen-deficient strontium titanite. Scientific Reports, 2015, 5, 10255.	1.6	25
94	Crystalline and amorphous structures of GeSbTe nanoparticles. Journal of Applied Physics, 2007, 102, 013524.	1.1	24
95	Effect of WC or NbC addition on lattice parameter of surrounding structure in Ti(CO _{0.7} N _{0.3})Ni cermet investigated by TEM/CBED. Journal of the European Ceramic Society, 2010, 30, 2131-2138.	2.8	24
96	Enhanced and tunable fluorescent quantum dots within a single crystal of protein. Nano Research, 2013, 6, 627-634.	5.8	24
97	Determination of fluctuations in local symmetry and measurement by convergent beam electron diffraction: applications to a relaxor-based ferroelectric crystal after thermal annealing. Journal of Applied Crystallography, 2013, 46, 1331-1337.	1.9	24
98	Three-dimensional nanostructure determination from a large diffraction data set recorded using scanning electron nanodiffraction. IUCr, 2016, 3, 300-308.	1.0	24
99	Lattice strain mapping using circular Hough transform for electron diffraction disk detection. Ultramicroscopy, 2019, 207, 112837.	0.8	24
100	Fast Atomic-Scale Chemical Imaging of Crystalline Materials and Dynamic Phase Transformations. Nano Letters, 2016, 16, 2728-2733.	4.5	23
101	Structure and diameter-dependent bond lengths of a multi-walled carbon nanotube revealed by electron diffraction. Carbon, 2009, 47, 3515-3528.	5.4	22
102	Increased Disorder at Graphite Particle Edges Revealed by Multi-length Scale Characterization of Anodes from Fast-Charged Lithium-Ion Cells. Journal of the Electrochemical Society, 2021, 168, 100509.	1.3	22
103	A high-temperature structure for Ta ₂ O ₅ with modulations by TiO ₂ substitution. Journal of Solid State Chemistry, 2006, 179, 1782-1791.	1.4	21
104	Regioselective Atomic Rearrangement of AgPt Octahedral Catalysts by Chemical Vapor-Assisted Treatment. Nano Letters, 2016, 16, 7988-7992.	4.5	21
105	Growth modes of carbon nanotubes on metal substrates. Journal of Applied Physics, 2006, 100, 044309.	1.1	20
106	Electron beam machining of nanometer-sized tips from multiwalled boron nitride nanotubes. Journal of Applied Physics, 2007, 102, .	1.1	20
107	Lattice-Rotation Vortex at the Charged Monoclinic Domain Boundary in a Relaxor Ferroelectric Crystal. Physical Review Letters, 2017, 118, 157601.	2.9	19
108	Strain-balanced InAs/GaSb type-II superlattice structures and photodiodes grown on InAs substrates by metalorganic chemical vapor deposition. Applied Physics Letters, 2011, 99, .	1.5	18

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109	In situ characterization of fracture toughness and dynamics of nanocrystalline titanium nitride films. <i>Journal of Materials Research</i> , 2016, 31, 370-379.	1.2	18
110	Training artificial neural networks for precision orientation and strain mapping using 4D electron diffraction datasets. <i>Ultramicroscopy</i> , 2021, 231, 113256.	0.8	18
111	Comment on "Structural Preablation Dynamics of Graphite Observed by Ultrafast Electron Crystallography". <i>Physical Review Letters</i> , 2010, 105, 059603; author reply 059604.	2.9	17
112	One-Dimensional Self-Assembly of Metallic Nanostructures on Single-Walled Carbon-Nanotube Bundles. <i>Small</i> , 2006, 2, 1418-1421.	5.2	16
113	Structure of the oxygen-annealed chalcogenide superconductor $\text{Fe}_{1-x}\text{O}_x\text{Te}$. <i>Physical Review B</i> , 2016, 93, 040501.	1.1	16
114	Structure of the oxygen-annealed chalcogenide superconductor $\text{Fe}_{1-x}\text{O}_x\text{Te}$. <i>Physical Review B</i> , 2016, 93, 040501.	1.1	16
115	Approaching the size limit of organometallic layers: synthesis and characterization of highly ordered silver-thiolate lamellae with ultra-short chain lengths. <i>Dalton Transactions</i> , 2016, 45, 18954-18966.	1.6	16
116	Performance-defining properties of Nb_3Sn coating in SRF cavities. <i>Superconductor Science and Technology</i> , 2018, 31, 015004.	1.8	16
117	Doped NiO: The mottness of a charge transfer insulator. <i>Physical Review B</i> , 2020, 101, .	1.1	16
118	Imaging suspended carbon nanotubes in field-effect transistors configured with microfabricated slits for transmission electron microscopy. <i>Applied Physics Letters</i> , 2005, 87, 173108.	1.5	15
119	Quantitative structural analysis of individual nanotubes by electron diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007, 222, .	0.4	15
120	Structure of layered WSe ₂ thin films with ultralow thermal conductivity. <i>Journal of Materials Research</i> , 2008, 23, 1064-1067.	1.2	15
121	TEM observation of growth and phase transformation in nanometer-sized titanium oxide powder. <i>Journal of Materials Science</i> , 2011, 46, 1780-1788.	1.7	15
122	Interaction of nanometer-sized gold nanocrystals with rutile (110) surface steps revealed at atomic resolution. <i>Surface Science</i> , 2014, 625, 16-22.	0.8	15
123	Nanoscale symmetry fluctuations in ferroelectric barium titanate, BaTiO_3 . <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017, 73, 708-714.	0.5	15
124	Ab initio study of growth mechanism of omega precipitates in Al-Cu-Mg-Ag alloy and similar systems. <i>Journal of Alloys and Compounds</i> , 2018, 737, 207-212.	2.8	15
125	Electron Nanodiffraction. <i>Springer Handbooks</i> , 2019, , 905-969.	0.3	15
126	Use of quantitative convergent-beam electron diffraction in materials science. , 1999, 46, 130-145.		14

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127	Electron Beam Stimulated Molecular Motions. ACS Nano, 2011, 5, 3367-3372.	7.3	14
128	Combining real and reciprocal space information for aberration free coherent electron diffractive imaging. Ultramicroscopy, 2011, 111, 817-823.	0.8	14
129	Magnetic properties of the (LaMnO ₃)N/(SrTiO ₃)N atomic layer superlattices. Journal of Applied Physics, 2013, 113, .	1.1	14
130	Determination of 60° polarization nanodomains in a relaxor-based ferroelectric single crystal. Applied Physics Letters, 2015, 107, .	1.5	14
131	Engineering Magnetic Anisotropy and Emergent Multidirectional Soft Ferromagnetism in Ultrathin Freestanding LaMnO ₃ Films. ACS Nano, 2022, 16, 7580-7588.	7.3	14
132	Molecular beam epitaxy of the magnetic Kagome metal FeSn on LaAlO ₃ (111). AIP Advances, 2020, 10, .	0.6	13
133	On the Consistency of QCBED Structure Factor Measurements for TiO ₂ (Rutile). Microscopy and Microanalysis, 2003, 9, 457-467.	0.2	12
134	In situ measurements and transmission electron microscopy of carbon nanotube field-effect transistors. Ultramicroscopy, 2008, 108, 613-618.	0.8	12
135	Digital model for X-ray diffraction with application to composition and strain determination in strained InAs/GaSb superlattices. Journal of Applied Physics, 2014, 116, .	1.1	12
136	Ultralow Thermal Conductivity in Nanoporous Crystalline Fe ₃ O ₄ . Journal of Physical Chemistry C, 2021, 125, 6897-6908.	1.5	12
137	Peak separation method for sub-lattice strain analysis at atomic resolution: Application to InAs/GaSb superlattice. Micron, 2017, 92, 6-12.	1.1	11
138	Sb-induced strain fluctuations in a strained layer superlattice of InAs/InAsSb. Journal of Applied Physics, 2018, 123, 161521.	1.1	11
139	Studies of x-ray localization and thickness dependence in atomic-scale elemental mapping by STEM energy-dispersive x-ray spectroscopy using single-frame scanning method. Ultramicroscopy, 2018, 186, 23-29.	0.8	11
140	Data-driven electron microscopy: electron diffraction imaging of materials structural properties. Microscopy (Oxford, England), 2022, 71, i116-i131.	0.7	11
141	Strain Field in Ultrasmall Gold Nanoparticles Supported on Cerium-Based Mixed Oxides. Key Influence of the Support Redox State. Langmuir, 2016, 32, 4313-4322.	1.6	10
142	Impact of interstitial oxygen on the electronic and magnetic structure in superconducting FeO_x films. Physical Review B, 2014, 90, .	1.1	9
143	Imaging Shape-Dependent Corrosion Behavior of Pt Nanoparticles over Extended Time Using a Liquid Flow Cell and TEM. Microscopy and Microanalysis, 2014, 20, 1508-1509.	0.2	9
144	Epitaxial growth of three dimensionally structured III-V photonic crystal via hydride vapor phase epitaxy. Journal of Applied Physics, 2015, 118, 224303.	1.1	9

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145	A Novel, Layered Phase in Ti-Rich SrTiO ₃ Epitaxial Thin Films. <i>Advanced Materials</i> , 2015, 27, 861-868.	11.1	9
146	Dynamics of Transformation from Platinum Icosahedral Nanoparticles to Larger FCC Crystal at Millisecond Time Resolution. <i>Scientific Reports</i> , 2017, 7, 17243.	1.6	9
147	Extended electronic structure inhomogeneity created by double chain layer defects surrounding columnar tracks in heavy-ion irradiated YBa ₂ Cu ₃ O _{7-δ} . <i>Superconductor Science and Technology</i> , 2018, 31, 105006.	1.8	9
148	Cepstral scanning transmission electron microscopy imaging of severe lattice distortions. <i>Ultramicroscopy</i> , 2021, 231, 113252.	0.8	9
149	Electrodeposition of atmosphere-sensitive ternary sodium transition metal oxide films for sodium-based electrochemical energy storage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
150	Ion-beam induced domain structure in piezoelectric PMN-PT single crystal. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	8
151	In situ RHEED study of epitaxial gold nanocrystals on TiO ₂ (110) surfaces. <i>Applied Surface Science</i> , 2013, 270, 661-666.	3.1	8
152	Improvements in electron diffraction pattern automatic indexing algorithms. <i>EPJ Applied Physics</i> , 2017, 80, 10701.	0.3	8
153	Determination of atomic vacancies in InAs/GaSb strained-layer superlattices by atomic strain. <i>IUCr</i> , 2018, 5, 67-72.	1.0	7
154	The dislocation structure of slip bands in deformed high entropy alloy nanopillars. <i>Journal of Materials Science and Technology</i> , 2021, 95, 136-144.	5.6	7
155	Role of Atomic Structure on Exciton Dynamics and Photoluminescence in NIR Emissive InAs/InP/ZnSe Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2022, 126, 7576-7587.	1.5	7
156	Atomic resolution tomography reconstruction of tilt series based on a GPU accelerated hybrid input-output algorithm using polar Fourier transform. <i>Ultramicroscopy</i> , 2015, 149, 64-73.	0.8	6
157	Shear banding mechanism in compressed nanocrystalline ceramic nanopillars. <i>Physical Review Materials</i> , 2019, 3, .	0.9	6
158	Point group symmetry of cadmium arsenide thin films determined by convergent beam electron diffraction. <i>Physical Review Materials</i> , 2019, 3, .	0.9	6
159	Local structure of potassium doped nickel oxide: A combined experimental-theoretical study. <i>Physical Review Materials</i> , 2019, 3, .	0.9	6
160	Atomistic modeling of nanoscale patterning of L12 order induced by ion irradiation. <i>Journal of Applied Physics</i> , 2010, 108, 054302.	1.1	5
161	Instrumentation and Experimental Techniques. , 2017, , 231-295.		5
162	Electron-Beam-Induced Growth of TiO ₂ Nanostructures. <i>Microscopy and Microanalysis</i> , 2011, 17, 274-278.	0.2	4

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163	Construction of an organic crystal structural model based on combined electron and powder X-ray diffraction data and the charge flipping algorithm. <i>Ultramicroscopy</i> , 2011, 111, 812-816.	0.8	4
164	Interface analysis of Ti/Al/Ti/Au ohmic contacts with regrown n ⁺ GaN layers using molecular beam epitaxy. <i>Surface and Interface Analysis</i> , 2011, 43, 1627-1631.	0.8	4
165	Convergent-beam electron-diffraction-pattern symmetry of nanodomains in complex lead-based perovskite crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2014, 70, 583-590.	0.0	4
166	A kinetic Monte Carlo study of coarsening resistance of novel core/shell precipitates. <i>Acta Materialia</i> , 2014, 79, 37-46.	3.8	4
167	Fundamental Symmetry of Barium Titanate Single Crystal Determined Using Energy-Filtered Scanning Convergent Beam Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2016, 22, 516-517.	0.2	4
168	Fast Atomic-Scale Elemental Mapping of Crystalline Materials by STEM Energy-Dispersive X-Ray Spectroscopy Achieved with Thin Specimens. <i>Microscopy and Microanalysis</i> , 2017, 23, 145-154.	0.2	4
169	Elemental and lattice-parameter mapping of binary oxide superlattices of (LaNiO ₃) ₄ /(LaMnO ₃) ₂ at atomic resolution. <i>Semiconductor Science and Technology</i> , 2017, 32, 014002.	1.0	4
170	Liquid Exfoliation of Decagonal Quasicrystals and Its Light Out-Coupling Performance in Organic Light-Emitting Devices. <i>Advanced Photonics Research</i> , 2020, 1, 2000042.	1.7	4
171	Large Area and Depth-Profiling Dislocation Imaging and Strain Analysis in Si/SiGe/Si Heterostructures. <i>Microscopy and Microanalysis</i> , 2014, 20, 1521-1527.	0.2	3
172	Accurate Diffraction Peak Identification for Scanning Electron Nanodiffraction Based on Automated Image Processing and Feature Detection. <i>Microscopy and Microanalysis</i> , 2017, 23, 180-181.	0.2	3
173	Scanning Convergent Beam Electron Diffraction (CBED), the Essential Questions of Why, What and How?. <i>Microscopy and Microanalysis</i> , 2018, 24, 172-173.	0.2	3
174	Rare-region onset of superconductivity in niobium nanoislands. <i>Physical Review B</i> , 2020, 101, .	1.1	3
175	Principles and Applications of Energy-Filtered Scanning CBED for Ferroelectric Domain Imaging and Symmetry Determination. <i>Microscopy and Microanalysis</i> , 2015, 21, 1245-1246.	0.2	2
176	Three-Dimensional Nanostructure Determination Based On Scanning Electron Nanodiffraction. <i>Microscopy and Microanalysis</i> , 2016, 22, 498-499.	0.2	2
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