

Jian-Min Zuo

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216
papers

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h-index

83
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229
ext. papers

8,658
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
216	Nanobelt self-assembly from an organic n-type semiconductor: propoxyethyl-PTCDI. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10496-7	16.4	396
215	Atomic resolution imaging of a carbon nanotube from diffraction intensities. <i>Science</i> , 2003 , 300, 1419-21	33.3	395
214	Direct observation of d-orbital holes and Cu-Cu bonding in Cu ₂ O. <i>Nature</i> , 1999 , 401, 49-52	50.4	358
213	Coordination-dependent surface atomic contraction in nanocrystals revealed by coherent diffraction. <i>Nature Materials</i> , 2008 , 7, 308-13	27	296
212	Instability, intermixing and electronic structure at the epitaxial LaAlO ₃ /SrTiO ₃ (001) heterojunction. <i>Surface Science Reports</i> , 2010 , 65, 317-352	12.9	241
211	Ultrathin n-type organic nanoribbons with high photoconductivity and application in optoelectronic vapor sensing of explosives. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5743-50	16.4	210
210	Metal-insulator transition and its relation to magnetic structure in (LaMnO ₃) _{2n} /(SrMnO ₃) _n superlattices. <i>Physical Review Letters</i> , 2008 , 100, 257203	7.4	185
209	Nonlithographic patterning and metal-assisted chemical etching for manufacturing of tunable light-emitting silicon nanowire arrays. <i>Nano Letters</i> , 2010 , 10, 1582-8	11.5	181
208	Time-dependent, protein-directed growth of gold nanoparticles within a single crystal of lysozyme. <i>Nature Nanotechnology</i> , 2011 , 6, 93-7	28.7	179
207	Nanofibril self-assembly of an arylene ethynylene macrocycle. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6576-7	16.4	172
206	DNA Sensing using Nano-crystalline Surface Enhanced Al(2)O(3) Nanopore Sensors. <i>Advanced Functional Materials</i> , 2010 , 20, 1266-1275	15.6	140
205	Accurate measurements of mean inner potential of crystal wedges using digital electron holograms. <i>Ultramicroscopy</i> , 1993 , 50, 285-299	3.1	137
204	Electronic reconstruction at SrMnO ₃ -LaMnO ₃ superlattice interfaces. <i>Physical Review Letters</i> , 2007 , 99, 196404	7.4	133
203	Automated lattice parameter measurement from HOLZ lines and their use for the measurement of oxygen content in YBa ₂ Cu ₃ O _{7-δ} from nanometer-sized region. <i>Ultramicroscopy</i> , 1992 , 41, 211-223	3.1	131
202	In(x)Ga(1-x)As nanowires on silicon: one-dimensional heterogeneous epitaxy, bandgap engineering, and photovoltaics. <i>Nano Letters</i> , 2011 , 11, 4831-8	11.5	126
201	Structure determination of individual single-wall carbon nanotubes by nanoarea electron diffraction. <i>Applied Physics Letters</i> , 2003 , 82, 2703-2705	3.4	125
200	Free folding of suspended graphene sheets by random mechanical stimulation. <i>Physical Review Letters</i> , 2010 , 104, 166805	7.4	124

199	Automated structure factor refinement from convergent-beam patterns. <i>Ultramicroscopy</i> , 1991 , 35, 185-196	11.7	117
198	Facile synthesis of tadpole-like nanostructures consisting of Au heads and Pd tails. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15452-3	16.4	116
197	Bonding in GaAs. <i>Physical Review Letters</i> , 1988 , 61, 353-356	7.4	114
196	Charge ordering in magnetite at low temperatures. <i>Physical Review B</i> , 1990 , 42, 8451-8464	3.3	100
195	Structural characterization of Pt-Pd and Pd-Pt core-shell nanoclusters at atomic resolution. <i>Journal of the American Chemical Society</i> , 2009 , 131, 8683-9	16.4	98
194	Highly Polarized and Self-Waveguided Emission from Single-Crystalline Organic Nanobelts. <i>Chemistry of Materials</i> , 2009 , 21, 2930-2934	9.6	96
193	The theoretical charge density of silicon: experimental testing of exchange and correlation potentials. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 7541-7561	1.8	96
192	Electrochemically tunable thermal conductivity of lithium cobalt oxide. <i>Nature Communications</i> , 2014 , 5, 4035	17.4	92
191	Growth of Au on Pt icosahedral nanoparticles revealed by low-dose in situ TEM. <i>Nano Letters</i> , 2015 , 15, 2711-5	11.5	90
190	Collapse and stability of single- and multi-wall carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 395703	3.4	78
189	Sub-ångström-resolution diffractive imaging of single nanocrystals. <i>Nature Physics</i> , 2009 , 5, 129-133	16.2	76
188	Lattice and strain analysis of atomic resolution Z-contrast images based on template matching. <i>Ultramicroscopy</i> , 2014 , 136, 50-60	3.1	71
187	Web-Based Electron Microscopy Application Software: Web-EMAPS. <i>Microscopy and Microanalysis</i> , 2004 , 10, 1000-1001	0.5	69
186	Determination of interfacial atomic structure, misfits and energetics of ϵ phase in AlCuMgAg alloy. <i>Acta Materialia</i> , 2014 , 81, 501-511	8.4	67
185	Dynamic-template-directed multiscale assembly for large-area coating of highly-aligned conjugated polymer thin films. <i>Nature Communications</i> , 2017 , 8, 16070	17.4	66
184	Dissolution Kinetics of Oxidative Etching of Cubic and Icosahedral Platinum Nanoparticles Revealed by in Situ Liquid Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 1696-1703	16.7	65
183	Binding energy of parallel carbon nanotubes. <i>Applied Physics Letters</i> , 2003 , 83, 3570-3571	3.4	64
182	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	21.8	63

- 181 Probing interfacial electronic structures in atomic layer LaMnO(3) and SrTiO(3) superlattices. *Advanced Materials*, **2010**, 22, 1156-60 24 63
- 180 Large dynamic range, parallel detection system for electron diffraction and imaging. *Review of Scientific Instruments*, **1988**, 59, 2102-2105 1.7 62
- 179 Nanoscale Spin-State Ordering in LaCoO3 Epitaxial Thin Films. *Chemistry of Materials*, **2014**, 26, 2496-2501 16 60
- 178 Synthesis, Internal Structure, and Formation Mechanism of Monodisperse Tin Sulfide Nanoplatelets. *Journal of the American Chemical Society*, **2015**, 137, 9943-52 16.4 59
- 177 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 3.8 57
- 176 Advanced Transmission Electron Microscopy **2017**, 56
- 175 Ambient photodoping of p-type organic nanofibers: highly efficient photoswitching and electrical vapor sensing of amines. *Chemical Communications*, **2010**, 46, 4127-9 5.8 55
- 174 Electron detection characteristics of slow-scan CCD camera. *Ultramicroscopy*, **1996**, 66, 21-33 3.1 55
- 173 Double-helix structure in multiwall boron nitride nanotubes. *Acta Crystallographica Section A: Foundations and Advances*, **2005**, 61, 533-41 54
- 172 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 14.4 49
- 171 Lamellar phase separation and dynamic competition in La_{0.23}Ca_{0.77}MnO₃. *Physical Review Letters*, **2005**, 94, 147206 7.4 49
- 170 Structure and phase separation of Ag₂Cu alloy thin films. *Acta Materialia*, **2007**, 55, 1617-1628 8.4 48
- 169 Accurate structure-factor phase determination by electron diffraction in noncentrosymmetric crystals. *Physical Review Letters*, **1989**, 62, 547-550 7.4 47
- 168 Electroplating lithium transition metal oxides. *Science Advances*, **2017**, 3, e1602427 14.3 45
- 167 Chemical sensors based on randomly stacked graphene flakes. *Applied Physics Letters*, **2012**, 100, 033111 3.4 45
- 166 Toward Superconducting Critical Current by Design. *Advanced Materials*, **2016**, 28, 4593-600 24 45
- 165 Direct measurement of transient electric fields induced by ultrafast pulsed laser irradiation of silicon. *Applied Physics Letters*, **2009**, 94, 251103 3.4 44
- 164 FORTRAN source listing for simulating three-dimensional convergent beam patterns with absorption by the Bloch wave method. *Journal of Electron Microscopy Technique*, **1989**, 12, 29-55 43

163	On the beam selection and convergence in the Bloch-wave method. <i>Ultramicroscopy</i> , 1995 , 57, 375-383	3.1	41
162	Effect of Mn doping on charge density in 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		40
161	Performance of imaging plates for electron recording. <i>Ultramicroscopy</i> , 1996 , 66, 35-47	3.1	40
160	Anisotropic strain-induced curvature in type-II CdSe/CdTe nanorod heterostructures. <i>Journal of the American Chemical Society</i> , 2010 , 132, 3286-8	16.4	39
159	Solving protein nanocrystals by cryo-EM diffraction: multiple scattering artifacts. <i>Ultramicroscopy</i> , 2015 , 148, 87-93	3.1	38
158	Direct Synthesis of H_2O_2 on AgPt Octahedra: The Importance of AgPt Coordination for High H_2O_2 Selectivity. <i>ACS Catalysis</i> , 2018 , 8, 2880-2889	13.1	38
157	The development of epitaxy of nanoclusters on lattice-mismatched substrates: Ag on $\text{HfBi}(111)$ surfaces. <i>Surface Science</i> , 2002 , 520, 7-17	1.8	38
156	Atomic resolution mapping of interfacial intermixing and segregation in InAs/GaSb superlattices: A correlative study. <i>Journal of Applied Physics</i> , 2013 , 113, 103511	2.5	37
155	On the Holz contribution to stem lattice images formed using high-angle dark-field detectors. <i>Ultramicroscopy</i> , 1989 , 31, 233-239	3.1	37
154	Grain-boundary constraint and oxygen deficiency in $\text{YBa}_2\text{Cu}_3\text{O}_7$ —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		35
153	Beam to String Transition of Vibrating Carbon Nanotubes Under Axial Tension. <i>Advanced Functional Materials</i> , 2009 , 19, 1753-1758	15.6	34
152	Phase separation in the iron chalcogenide superconductor $\text{Fe}_{1+y}\text{Te}_x\text{Se}_{1-x}$. <i>New Journal of Physics</i> , 2011 , 13, 053031	2.9	33
151	Two-dimensional superconductivity and anisotropic transport at $\text{KTaO}_3(111)$ interfaces. <i>Science</i> , 2021 , 371, 716-721	33.3	33
150	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, 1542-57	16.7	32
149	TEM based high resolution and low-dose scanning electron nanodiffraction technique for nanostructure imaging and analysis. <i>Micron</i> , 2015 , 71, 39-45	2.3	32
148	Electrical and microstructural properties of thermally annealed Ni/Au and Ni/Pt/Au Schottky contacts on AlGaN/GaN heterostructures. <i>Semiconductor Science and Technology</i> , 2014 , 29, 095005	1.8	32
147	High Aspect Ratio ZnO Fin Arrays with Low-Interface Charge Density by Inverse Metal-Assisted Chemical Etching. <i>ACS Nano</i> , 2019 , 13, 8784-8792	16.7	31
146	Equilibrium shapes and triple line energy of epitaxial gold nanocrystals supported on $\text{TiO}_2(110)$. <i>Physical Review B</i> , 2010 , 82,	3.3	31

145	Structure and chirality distribution of multiwalled boron nitride nanotubes. <i>Applied Physics Letters</i> , 2005 , 86, 133110	3.4	31
144	Symmetry quantification and mapping using convergent beam electron diffraction. <i>Ultramicroscopy</i> , 2013 , 124, 71-6	3.1	30
143	Size- and shape-dependent energetics of nanocrystal interfaces: experiment and simulation. <i>Physical Review Letters</i> , 2003 , 90, 226104	7.4	30
142	Passivation Dynamics in the Anisotropic Deposition and Stripping of Bulk Magnesium Electrodes During Electrochemical Cycling. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18406-14	9.5	29
141	Visualizing materials chemistry at atomic resolution. <i>Analytical Chemistry</i> , 2010 , 82, 2599-607	7.8	28
140	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, 183-93	0.5	28
139	Textured crystallization of ultrathin hafnium oxide films on silicon substrate. <i>Applied Physics Letters</i> , 2007 , 90, 161917	3.4	28
138	Ag-Pt Compositional Intermetallics Made from Alloy Nanoparticles. <i>Nano Letters</i> , 2016 , 16, 6599-6603	11.5	28
137	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	1.6	27
136	High-resolution strain measurement in shallow trench isolation structures using dynamic electron diffraction. <i>Applied Physics Letters</i> , 2004 , 84, 2181-2183	3.4	27
135	Effects of Particle Size on Mg Ion Intercalation into EMnO Cathode Materials. <i>Nano Letters</i> , 2019 , 19, 4712-4720	11.5	26
134	Electrical transport in small bundles of single-walled carbon nanotubes: Intertube interaction and effects of tube deformation. <i>Applied Physics Letters</i> , 2010 , 96, 173107	3.4	26
133	Crystalline and amorphous structures of GeSbTe nanoparticles. <i>Journal of Applied Physics</i> , 2007 , 102, 013524	2.5	24
132	Oscillatory Noncollinear Magnetism Induced by Interfacial Charge Transfer in Superlattices Composed of Metallic Oxides. <i>Physical Review X</i> , 2016 , 6,	9.1	24
131	Direct observation of interfacial Au atoms on TiO_2 in three dimensions. <i>Nano Letters</i> , 2015 , 15, 2548-54	11.5	23
130	Colossal positive magnetoresistance in surface-passivated oxygen-deficient strontium titanite. <i>Scientific Reports</i> , 2015 , 5, 10255	4.9	22
129	Determination of fluctuations in local symmetry and measurement by convergent beam electron diffraction: applications to a relaxor-based ferroelectric crystal after thermal annealing. <i>Journal of Applied Crystallography</i> , 2013 , 46, 1331-1337	3.8	22
128	Symmetry of piezoelectric $(1-x)\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3-x\text{PbTiO}_3$ ($x=0.31$) single crystal at different length scales in the morphotropic phase boundary region. <i>Physical Review B</i> , 2012 , 86,	3.3	22

127	Effect of WC or NbC addition on lattice parameter of surrounding structure in Ti(C0.7Nb0.3)Ni cermet investigated by TEM/CBED. <i>Journal of the European Ceramic Society</i> , 2010 , 30, 2131-2138	6	22
126	Thermal transport in layer-by-layer assembled polycrystalline graphene films. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	21
125	Three-dimensional nanostructure determination from a large diffraction data set recorded using scanning electron nanodiffraction. <i>IUCrJ</i> , 2016 , 3, 300-308	4.7	21
124	New optical absorption bands in atomic-layer superlattices. <i>Advanced Materials</i> , 2010 , 22, 1136-9	24	21
123	Temperature-independent giant dielectric response in transitional BaTiO ₃ thin films. <i>Applied Physics Reviews</i> , 2020 , 7, 011402	17.3	20
122	High-index facets in gold nanocrystals elucidated by coherent electron diffraction. <i>Nano Letters</i> , 2013 , 13, 1840-6	11.5	20
121	A high-temperature structure for Ta ₂ O ₅ with modulations by TiO ₂ substitution. <i>Journal of Solid State Chemistry</i> , 2006 , 179, 1782-1791	3.3	20
120	Enhanced and tunable fluorescent quantum dots within a single crystal of protein. <i>Nano Research</i> , 2013 , 6, 627-634	10	19
119	Electron beam machining of nanometer-sized tips from multiwalled boron nitride nanotubes. <i>Journal of Applied Physics</i> , 2007 , 102, 024310	2.5	19
118	Regioselective Atomic Rearrangement of Ag-Pt Octahedral Catalysts by Chemical Vapor-Assisted Treatment. <i>Nano Letters</i> , 2016 , 16, 7988-7992	11.5	19
117	Fast Atomic-Scale Chemical Imaging of Crystalline Materials and Dynamic Phase Transformations. <i>Nano Letters</i> , 2016 , 16, 2728-33	11.5	18
116	Structure and diameter-dependent bond lengths of a multi-walled carbon nanotube revealed by electron diffraction. <i>Carbon</i> , 2009 , 47, 3515-3528	10.4	18
115	Dislocation avalanche mechanism in slowly compressed high entropy alloy nanopillars. <i>Communications Physics</i> , 2018 , 1,	5.4	18
114	Strain-balanced InAs/GaSb type-II superlattice structures and photodiodes grown on InAs substrates by metalorganic chemical vapor deposition. <i>Applied Physics Letters</i> , 2011 , 99, 011109	3.4	17
113	Growth modes of carbon nanotubes on metal substrates. <i>Journal of Applied Physics</i> , 2006 , 100, 044309	2.5	17
112	Comment on "Structural preablation dynamics of graphite observed by ultrafast electron crystallography". <i>Physical Review Letters</i> , 2010 , 105, 059603; author reply 059604	7.4	16
111	Lattice-Rotation Vortex at the Charged Monoclinic Domain Boundary in a Relaxor Ferroelectric Crystal. <i>Physical Review Letters</i> , 2017 , 118, 157601	7.4	15
110	Electron energy-loss study of the electronic structure of atomic scale SrTiO ₃ /BaMnO ₃ /BaMnO ₃ superlattices. <i>Physical Review B</i> , 2008 , 77,	3.3	15

109	Quantitative structural analysis of individual nanotubes by electron diffraction. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2007 , 222,	1	15
108	One-dimensional self-assembly of metallic nanostructures on single-walled carbon-nanotube bundles. <i>Small</i> , 2006 , 2, 1418-21	11	15
107	Interaction of nanometer-sized gold nanocrystals with rutile (110) surface steps revealed at atomic resolution. <i>Surface Science</i> , 2014 , 625, 16-22	1.8	14
106	Structure of the oxygen-annealed chalcogenide superconductor Fe _{1.08} Te _{0.55} Se _{0.45} O _x . <i>Physical Review B</i> , 2012 , 85,	3.3	14
105	Imaging suspended carbon nanotubes in field-effect transistors configured with microfabricated slits for transmission electron microscopy. <i>Applied Physics Letters</i> , 2005 , 87, 173108	3.4	14
104	Sub-10-nm graphene nanoribbons with atomically smooth edges from squashed carbon nanotubes. <i>Nature Electronics</i> , 2021 , 4, 653-663	28.4	14
103	Lattice strain mapping using circular Hough transform for electron diffraction disk detection. <i>Ultramicroscopy</i> , 2019 , 207, 112837	3.1	13
102	Electron beam stimulated molecular motions. <i>ACS Nano</i> , 2011 , 5, 3367-72	16.7	13
101	TEM observation of growth and phase transformation in nanometer-sized titanium oxide powder. <i>Journal of Materials Science</i> , 2011 , 46, 1780-1788	4.3	13
100	Combining real and reciprocal space information for aberration free coherent electron diffractive imaging. <i>Ultramicroscopy</i> , 2011 , 111, 817-23	3.1	13
99	Structure of layered WSe ₂ thin films with ultralow thermal conductivity. <i>Journal of Materials Research</i> , 2008 , 23, 1064-1067	2.5	13
98	In situ characterization of fracture toughness and dynamics of nanocrystalline titanium nitride films. <i>Journal of Materials Research</i> , 2016 , 31, 370-379	2.5	13
97	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	1.8	12
96	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	4.3	12
95	Determination of 60° polarization nanodomains in a relaxor-based ferroelectric single crystal. <i>Applied Physics Letters</i> , 2015 , 107, 162902	3.4	12
94	On the consistency of QCBED structure factor measurements for TiO ₂ (rutile). <i>Microscopy and Microanalysis</i> , 2003 , 9, 457-67	0.5	12
93	Electron Nanodiffraction. <i>Springer Handbooks</i> , 2019 , 905-969	1.3	12
92	Performance-defining properties of Nb ₃ Sn coating in SRF cavities. <i>Superconductor Science and Technology</i> , 2018 , 31, 015004	3.1	11

91	Magnetic properties of the (LaMnO ₃)N/(SrTiO ₃)N atomic layer superlattices. <i>Journal of Applied Physics</i> , 2013 , 113, 173913	2.5	11
90	In situ measurements and transmission electron microscopy of carbon nanotube field-effect transistors. <i>Ultramicroscopy</i> , 2008 , 108, 613-8	3.1	11
89	Doped NiO: The mottness of a charge transfer insulator. <i>Physical Review B</i> , 2020 , 101,	3.3	10
88	Digital model for X-ray diffraction with application to composition and strain determination in strained InAs/GaSb superlattices. <i>Journal of Applied Physics</i> , 2014 , 116, 013513	2.5	10
87	Peak separation method for sub-lattice strain analysis at atomic resolution: Application to InAs/GaSb superlattice. <i>Micron</i> , 2017 , 92, 6-12	2.3	9
86	Sb-induced strain fluctuations in a strained layer superlattice of InAs/InAsSb. <i>Journal of Applied Physics</i> , 2018 , 123, 161521	2.5	8
85	Use of quantitative convergent-beam electron diffraction in materials science. <i>Microscopy Research and Technique</i> , 1999 , 46, 130-45	2.8	8
84	Training artificial neural networks for precision orientation and strain mapping using 4D electron diffraction datasets. <i>Ultramicroscopy</i> , 2021 , 231, 113256	3.1	8
83	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. <i>Ultramicroscopy</i> , 2018 , 186, 23-29	3.1	8
82	In situ RHEED study of epitaxial gold nanocrystals on TiO ₂ (1 1 0) surfaces. <i>Applied Surface Science</i> , 2013 , 270, 661-666	6.7	7
81	Epitaxial growth of three dimensionally structured III-V photonic crystal via hydride vapor phase epitaxy. <i>Journal of Applied Physics</i> , 2015 , 118, 224303	2.5	7
80	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	5.7	7
79	A novel, layered phase in Ti-rich SrTiO ₃ epitaxial thin films. <i>Advanced Materials</i> , 2015 , 27, 861-8	24	6
78	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	3.1	6
77	Determination of atomic vacancies in InAs/GaSb strained-layer superlattices by atomic strain. <i>IUCrJ</i> , 2018 , 5, 67-72	4.7	6
76	Imaging Shape-Dependent Corrosion Behavior of Pt Nanoparticles over Extended Time Using a Liquid Flow Cell and TEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1508-1509	0.5	6
75	Dynamics of Transformation from Platinum Icosahedral Nanoparticles to Larger FCC Crystal at Millisecond Time Resolution. <i>Scientific Reports</i> , 2017 , 7, 17243	4.9	6
74	Improvements in electron diffraction pattern automatic indexing algorithms. <i>EPJ Applied Physics</i> , 2017 , 80, 10701	1.1	6

73	Impact of interstitial oxygen on the electronic and magnetic structure in superconducting Fe _{1+y} TeO _x thin films. <i>Physical Review B</i> , 2014 , 90,	3.3	6
72	Ion-beam induced domain structure in piezoelectric PMN-PT single crystal. <i>Applied Physics Letters</i> , 2010 , 97, 261910	3.4	6
71	Strain Field in Ultrasmall Gold Nanoparticles Supported on Cerium-Based Mixed Oxides. Key Influence of the Support Redox State. <i>Langmuir</i> , 2016 , 32, 4313-22	4	6
70	Increased Disorder at Graphite Particle Edges Revealed by Multi-length Scale Characterization of Anodes from Fast-Charged Lithium-Ion Cells. <i>Journal of the Electrochemical Society</i> ,	3.9	6
69	Atomistic modeling of nanoscale patterning of L12 order induced by ion irradiation. <i>Journal of Applied Physics</i> , 2010 , 108, 054302	2.5	5
68	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	0.5	4
67	Extended electronic structure inhomogeneity created by double chain layer defects surrounding columnar tracks in heavy-ion irradiated YBa ₂ Cu ₃ O ₇ Superconductor <i>Science and Technology</i> , 2018 , 31, 105006	3.1	4
66	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	1.7	4
65	Electron-beam-induced growth of TiO(2) nanostructures. <i>Microscopy and Microanalysis</i> , 2011 , 17, 274-8	0.5	4
64	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, 812-6	3.1	4
63	Point group symmetry of cadmium arsenide thin films determined by convergent beam electron diffraction. <i>Physical Review Materials</i> , 2019 , 3,	3.2	4
62	Molecular beam epitaxy of the magnetic Kagome metal FeSn on LaAlO ₃ (111). <i>AIP Advances</i> , 2020 , 10, 105017	1.5	4
61	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	0.5	3
60	A kinetic Monte Carlo study of coarsening resistance of novel core/shell precipitates. <i>Acta Materialia</i> , 2014 , 79, 37-46	8.4	3
59	Large area and depth-profiling dislocation imaging and strain analysis in Si/SiGe/Si heterostructures. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1521-7	0.5	3
58	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	1.5	3
57	Shear banding mechanism in compressed nanocrystalline ceramic nanopillars. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
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