

Jing Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222
papers

6,515
citations

41
h-index

75
g-index

236
ext. papers

7,376
ext. citations

6
avg, IF

5.93
L-index

#	Paper	IF	Citations
222	Visualization and control of oxygen dopant ordering in a cuprate superconductor. <i>Materials Today Physics</i> , 2022 , 23, 100629	8	0
221	Displacement separation analysis from atomic-resolution images. <i>Ultramicroscopy</i> , 2022 , 232, 113404	3.1	0
220	Direct observations of electric-field-induced domain switching and phase transition in 0.95Na0.5Bi0.5TiO3-0.05BaTiO3 single crystals using in situ transmission electron microscopy. <i>Applied Physics Letters</i> , 2022 , 120, 072901	3.4	1
219	Two-band superconductivity through structural and electronic reconstruction on interface: YBa2Cu3O7/LaAlO3(001). <i>Journal of Applied Physics</i> , 2022 , 131, 125303	2.5	
218	Local Γ [001] _c off-centering nanoregions in silver niobate. <i>Journal of Applied Physics</i> , 2022 , 131, 124107	2.5	0
217	Atomic structures of twin boundaries in CoO. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 25590-25596	3.6	1
216	A macro-nano-atomic-scale high-throughput approach for material research. <i>Science Advances</i> , 2021 , 7, eabj8804	14.3	1
215	Direct observation of chemical short-range order in a medium-entropy alloy. <i>Nature</i> , 2021 , 592, 712-716	50.4	73
214	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. <i>Nano Letters</i> , 2021 , 21, 5782-5787	11.5	
213	Properties of stress-induced super tetragonal phase in epitaxial BiFeO3 thin film. <i>Applied Physics Letters</i> , 2021 , 118, 242903	3.4	
212	Surface Structures of MnO and the Partition of Oxidation States of Mn. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5675-5681	6.4	2
211	Investigations of magneto-elastic coupling in a multiferroic ferrite by in-situ precession diffraction. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2166-2168	0.5	
210	Atomic insight into spin, charge and lattice modulations at SrFeO/SrTiO interfaces. <i>Nanoscale</i> , 2021 , 13, 6066-6075	7.7	3
209	Extrusion-based 3D printed magnesium scaffolds with multifunctional MgF and MgF-CaP coatings. <i>Biomaterials Science</i> , 2021 , 9, 7159-7182	7.4	2
208	characterization of conductive filaments during resistive switching in Mott VO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
207	Polyhedron and Charge Ordering in Interfacial Reconstruction of a Hexagonal Ferrite/Sapphire Heterostructure. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 11489-11496	9.5	2
206	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO. <i>Nano Letters</i> , 2021 , 21, 6648-6655	11.5	2

205	Controlling Strain Relaxation by Interface Design in Highly Lattice-Mismatched Heterostructure. <i>Nano Letters</i> , 2021 , 21, 6867-6874	11.5	2
204	Direct Observation of Interface-Dependent Multidomain State in the BaTiO Tunnel Barrier of a Multiferroic Tunnel Junction Memristor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43641-43647	9.5	0
203	Charge Ordering in Manganite and Ferrite Systems. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2546-2548	0.5	
202	Nanoscale Structural and Emission Properties within Russian Doll-Type InGaN/AlGaN Quantum Wells. <i>Advanced Optical Materials</i> , 2020 , 8, 2000481	8.1	1
201	The performance evaluation of direct detection electron energy-loss spectroscopy at 200kV and 80kV accelerating voltages. <i>Ultramicroscopy</i> , 2020 , 212, 112942	3.1	6
200	Water-induced formation of an alkali-ion dimer in cryptomelane nanorods. <i>Chemical Science</i> , 2020 , 11, 4991-4998	9.4	2
199	Structure and Stability of the (001) Surface of Co ₃ O ₄ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 25790-25795	9.8	8
198	Observation of oxygen pyramid tilting induced polarization rotation in strained BiFeO ₃ thin film. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 2828-2834	3.8	
197	Atomic Structure and Properties of SnO ₂ (100) and (101) Surfaces and (301) Steps in the (100) Surface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 27631-27636	3.8	2
196	Surface termination and stoichiometry of LaAlO(001) surface studied by HRTEM. <i>Micron</i> , 2020 , 137, 102919	2.9	8
195	Flexible Cation Distribution for Stabilizing a Spinel Surface. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16431-16438	3.8	7
194	Direct Visualization of Ambipolar Mott Transition in Cuprate CuO ₂ Planes. <i>Physical Review Letters</i> , 2020 , 125, 077002	7.4	8
193	Atomic structure and properties of a perovskite/spinel (111) interface. <i>Physical Review B</i> , 2020 , 102,	3.3	2
192	High-Angular Splitting Electron Vortex Beams Generated by Topological Defects. <i>Microscopy and Microanalysis</i> , 2019 , 25, 88-89	0.5	1
191	The Performance of Electron Counting Direct Detection in Electron Energy Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 586-587	0.5	2
190	Physical and chemical strains co-tuned magnetic properties of double perovskite PrBaMn ₂ O _{5.5} + δ epitaxial films. <i>Applied Physics Letters</i> , 2019 , 115, 081903	3.4	2
189	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800827	6.4	7
188	Design and understanding of core/branch-structured VS nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. <i>Nanoscale</i> , 2019 , 11, 13343-13353	7.7	32

187	Antiferroelectric order and Ta-doped AgNbO ₃ with higher energy storage density. <i>Journal of Applied Physics</i> , 2019 , 125, 204103	2.5	13
186	Microscopic origin of the high piezoelectric response of Sm-doped BiFeO ₃ near the morphotropic phase boundary. <i>Journal of Applied Physics</i> , 2019 , 125, 175113	2.5	4
185	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19584-19595	9.5	22
184	Magnetic measurement by electron magnetic circular dichroism in the transmission electron microscope. <i>Ultramicroscopy</i> , 2019 , 201, 1-17	3.1	9
183	Charge-Lattice Coupling in Hole-Doped LuFe ₂ O ₄ : The Origin of Second-Order Modulation. <i>Physical Review Letters</i> , 2019 , 122, 126401	7.4	8
182	Atomistic Defect Makes a Phase Plate for the Generation and High-Angular Splitting of Electron Vortex Beams. <i>ACS Nano</i> , 2019 , 13, 3964-3970	16.7	2
181	Observation of giant interfacial spin Hall angle in Y ₃ Fe ₅ O ₁₂ /Pt heterostructures. <i>Physical Review B</i> , 2019 , 100,	3.3	6
180	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO ₃ films. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 404001	3	38
179	Will a Wiener Filter Decrease the Accuracy of HRTEM Displacement Measurements of Aperiodic Structures?. <i>Journal of the Korean Physical Society</i> , 2019 , 74, 1112-1118	0.6	2
178	The in situ Studies on the Anomalous Domain Switching Caused by Trace Amount of Oxygen Vacancies. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1888-1889	0.5	
177	Visualization of Dopant Oxygen Atoms in a Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ Superconductor. <i>Advanced Functional Materials</i> , 2019 , 29, 1903843	15.6	13
176	Controlling the 3-D morphology of Ni-Fe-based nanocatalysts for the oxygen evolution reaction. <i>Nanoscale</i> , 2019 , 11, 8170-8184	7.7	11
175	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. <i>Physical Review Letters</i> , 2019 , 123, 247601	7.4	5
174	Coherent Topotactic Interface between Corundum and Rutile Structures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 534-540	3.8	2
173	Quantification of Magnetic Surface and Edge States in an FeGe Nanostripe by Off-Axis Electron Holography. <i>Physical Review Letters</i> , 2018 , 120, 167204	7.4	21
172	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. <i>Nature Materials</i> , 2018 , 17, 221-225	27	42
171	Oxygen adatoms and vacancies on the (110) surface of CeO ₂ . <i>Science China Technological Sciences</i> , 2018 , 61, 135-139	3.5	12
170	Networks of High Performance Triboelectric Nanogenerators Based on Liquid-Solid Interface Contact Electrification for Harvesting Low-Frequency Blue Energy. <i>Advanced Energy Materials</i> , 2018 , 8, 1800705	21.8	104

169	Interface-Confined FeO Adlayers Induced by Metal Support Interaction in Pt/FeO Catalysts. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 984-990	3.4	18
168	Domain configurations in dislocations embedded hexagonal manganite systems: From the view of graph theory. <i>Applied Physics Letters</i> , 2018 , 112, 162905	3.4	
167	Roles of Oxygen Vacancy in Improper Ferroelectrics. <i>Microscopy and Microanalysis</i> , 2018 , 24, 74-75	0.5	
166	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite SrFeReO. <i>Ultramicroscopy</i> , 2018 , 193, 137-142	3.1	8
165	Structure stabilization effect of configuration entropy in cubic WN. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 29243-29248	3.6	1
164	Bilayer MoS2 quantum dots with tunable magnetism and spin. <i>AIP Advances</i> , 2018 , 8, 115103	1.5	2
163	Atomic-scale structure characteristics of antiferroelectric silver niobate. <i>Applied Physics Letters</i> , 2018 , 113, 242901	3.4	6
162	Microwave dielectric properties and microstructure of a new kind Eu-based Eu(Mg0.5Ti0.5)O3 ceramic. <i>Rare Metals</i> , 2018 , 37, 913-918	5.5	3
161	Subsurface reconstruction and saturation of surface bonds. <i>Science Bulletin</i> , 2018 , 63, 1570-1575	10.6	12
160	Blind identification of magnetic signals in electron magnetic chiral dichroism using independent component analysis. <i>Ultramicroscopy</i> , 2018 , 195, 129-135	3.1	4
159	Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018 , 4, eaar4298	14.3	28
158	Quantitative measurement of magnetic parameters by electron magnetic chiral dichroism. <i>Chinese Physics B</i> , 2018 , 27, 056801	1.2	2
157	Mg ₃ Al ₂ Zn alloy strips processed by electroplastic differential speed rolling. <i>Materials Science and Technology</i> , 2017 , 33, 215-219	1.5	7
156	Evolution of superdislocation structures during tertiary creep of a nickel-based single-crystal superalloy at high temperature and low stress. <i>Acta Materialia</i> , 2017 , 126, 336-345	8.4	50
155	Strain Concentration at the Boundaries in 5-Fold Twins of Diamond and Silicon. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4253-4258	9.5	11
154	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. <i>APL Materials</i> , 2017 , 5, 074104	5.7	40
153	An in-plane magnetic chiral dichroism approach for measurement of intrinsic magnetic signals using transmitted electrons. <i>Nature Communications</i> , 2017 , 8, 15348	17.4	13
152	Electron beam-induced dynamic evolution of vortex domains and domain walls in single crystalline YMnO ₃ . <i>Journal of the American Ceramic Society</i> , 2017 , 100, 2373-2377	3.8	4

151	Formation of Hexagonal-Close Packed (HCP) Rhodium as a Size Effect. <i>Journal of the American Chemical Society</i> , 2017 , 139, 575-578	16.4	42
150	Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3336-3345	13	67
149	Hierarchical Porous Double-Shelled Electrocatalyst with Tailored Lattice Alkalinity toward Bifunctional Oxygen Reactions for Metal-Air Batteries. <i>ACS Energy Letters</i> , 2017 , 2, 2706-2712	20.1	64
148	Direct observation of multiple rotational stacking faults coexisting in freestanding bilayer MoS ₂ . <i>Scientific Reports</i> , 2017 , 7, 8323	4.9	11
147	Atomic Mechanism of Hybridization-Dependent Surface Reconstruction with Tailored Functionality in Hexagonal Multiferroics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 27322-27331	9.5	10
146	Reversible phase transition induced large piezoelectric response in Sm-doped BiFeO ₃ with a composition near the morphotropic phase boundary. <i>Physical Review B</i> , 2017 , 95,	3.3	33
145	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. <i>Physical Review Letters</i> , 2017 , 118, 145501	7.4	20
144	Compositional design strategy for high performance ferroelectric oxides with perovskite structure. <i>Ceramics International</i> , 2017 , 43, 2910-2917	5.1	23
143	Intricate Physics of Coherent Electron Beam/Oxide Materials Interaction Revealed by 4D Inline Holography-Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2017 , 23, 1632-1633	0.5	
142	Atomic layer reversal on CeO ₂ (100) surface. <i>Science China Materials</i> , 2017 , 60, 903-908	7.1	15
141	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer. <i>Physical Review Materials</i> , 2017 , 1,	3.2	5
140	An overview of rhenium effect in single-crystal superalloys. <i>Rare Metals</i> , 2016 , 35, 127-139	5.5	51
139	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer 2016 , 929-930		
138	Coupling Between Strain and Oxygen Octahedral Distortions in Epitaxially Strained GdScO ₃ /SrTiO ₃ Heterostructure. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 3734-3738	3.8	3
137	Modulating Magnetic Properties by Tailoring In-Plane Domain Structures in Hexagonal YMnO ₃ Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 25379-85	9.5	5
136	Detection of electron magnetic circular dichroism signals under zone axial diffraction geometry. <i>Ultramicroscopy</i> , 2016 , 169, 44-54	3.1	14
135	Electronic and crystal structure changes induced by in-plane oxygen vacancies in multiferroic YMnO ₃ . <i>Physical Review B</i> , 2016 , 93,	3.3	24
134	Nanoparticle Decorated Ultrathin Porous Nanosheets as Hierarchical Co ₃ O ₄ Nanostructures for Lithium Ion Battery Anode Materials. <i>Scientific Reports</i> , 2016 , 6, 20592	4.9	60

133	Engineering the surface of rutile TiO ₂ nanoparticles with quantum pits towards excellent lithium storage. <i>RSC Advances</i> , 2016 , 6, 66197-66203	3.7	10
132	Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO ₃ . <i>Advanced Functional Materials</i> , 2016 , 26, 3589-3598	15.6	40
131	Co ₉ S ₈ nanoparticles encapsulated in nitrogen-doped mesoporous carbon networks with improved lithium storage properties. <i>RSC Advances</i> , 2016 , 6, 31775-31781	3.7	54
130	Electrocatalysis enhancement of iron-based catalysts induced by synergy of methanol and oxygen-containing groups. <i>Nano Energy</i> , 2016 , 21, 265-275	17.1	10
129	Pressure induced Ag ₂ Te polymorphs in conjunction with topological non trivial to metal transition. <i>AIP Advances</i> , 2016 , 6, 085003	1.5	4
128	A general way for quantitative magnetic measurement by transmitted electrons. <i>Scientific Reports</i> , 2016 , 6, 18489	4.9	13
127	Short-range ordering of heavy-element columns in nickel-based superalloys. <i>Philosophical Magazine Letters</i> , 2016 , 96, 432-439	1	1
126	Competing Interfacial Reconstruction Mechanisms in La _{0.7} Sr _{0.3} MnO ₃ /SrTiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24192-7	9.5	18
125	Sub-solvus Cellular Recrystallization and P Phase Formation in a Single-Crystal Superalloy Containing Re. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 72-76	2.5	7
124	Fine control over the morphology and photocatalytic activity of 3D ZnO hierarchical nanostructures: capping vs. etching. <i>RSC Advances</i> , 2015 , 5, 56232-56238	3.7	13
123	Misorientation related microstructure at the grain boundary in a nickel-based single crystal superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 394-401	5.3	12
122	Why Sn doping significantly enhances the dielectric properties of Ba(Ti _{1-x} Sn _x)O ₃ . <i>Scientific Reports</i> , 2015 , 5, 8606	4.9	65
121	Optimized electrospinning synthesis of iron-nitrogen-carbon nanofibers for high electrocatalysis of oxygen reduction in alkaline medium. <i>Nanotechnology</i> , 2015 , 26, 165401	3.4	11
120	Correlation between oxygen vacancies and sites of Mn ions in YMnO ₃ . <i>Applied Physics Letters</i> , 2015 , 106, 062905	3.4	10
119	A self-powered system based on triboelectric nanogenerators and supercapacitors for metal corrosion prevention. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22663-22668	13	46
118	Oxygen deficiency induced deterioration in microstructure and magnetic properties at Y ₃ Fe ₅ O ₁₂ /Pt interface. <i>Applied Physics Letters</i> , 2015 , 107, 042401	3.4	22
117	Effect of the asymmetry of dynamical electron diffraction on intensity of acquired EMCD signals. <i>Ultramicroscopy</i> , 2015 , 148, 42-51	3.1	18
116	Disparity of secondary electron emission in ferroelectric domains of YMnO ₃ . <i>Applied Physics Letters</i> , 2015 , 107, 032901	3.4	8

115	The Effect of Aluminum on Microstructure and Mechanical Properties of ATI 718Plus Alloy. <i>Materials Transactions</i> , 2015 , 56, 635-641	1.3	10
114	Core structures of {110} edge dislocations in BaTiO ₃ . <i>AIP Advances</i> , 2015 , 5, 077172	1.5	
113	Elastic Properties of GaN Nanowires: Revealing the influence of planar defects on Young's modulus at nanoscale. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1915-1916	0.5	
112	Defect-induced discriminative modulation of the highest occupied molecular orbital energies of graphene. <i>AIP Advances</i> , 2015 , 5, 117108	1.5	
111	Embedding Ba Monolayers and Bilayers in Boron Carbide Nanowires. <i>Scientific Reports</i> , 2015 , 5, 16960	4.9	6
110	Direct Observation of Thickness Dependence of Ferroelectricity in Freestanding BaTiO ₃ Thin Film. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 2710-2712	3.8	12
109	Ag-Modified In ₂ O ₃ /ZnO Nanobundles with High Formaldehyde Gas-Sensing Performance. <i>Sensors</i> , 2015 , 15, 20086-96	3.8	19
108	Controllable synthesis of porous iron-nitrogen-carbon nanofibers with enhanced oxygen reduction electrocatalysis in acidic medium. <i>RSC Advances</i> , 2015 , 5, 50324-50327	3.7	3
107	Core structure of a<100> superdislocations in a single-crystal superalloy during high-temperature and low-stress creep. <i>Philosophical Magazine Letters</i> , 2015 , 95, 496-503	1	7
106	Experimental measurements and theoretical calculations of the atomic structure of materials with subangstrom resolution and picometer precision. <i>Science Bulletin</i> , 2014 , 59, 1719-1724		5
105	Kinetics simulation and experimental observation of fine microstructure of 9%Ni cryogenic steel processed by QLT heat treatment. <i>Science Bulletin</i> , 2014 , 59, 1765-1772		5
104	Effect of current frequency on the mechanical properties, microstructure and texture evolution in AZ31 magnesium alloy strips during electroplastic rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 406-413	5.3	27
103	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 10456-61	11.5	28
102	Coupling between Re segregation and γ interfacial dislocations during high-temperature, low-stress creep of a nickel-based single-crystal superalloy. <i>Acta Materialia</i> , 2014 , 76, 294-305	8.4	72
101	Evaluation of stacking faults and associated partial dislocations in AlSb/GaAs (001) interface by aberration-corrected high-resolution transmission electron microscopy. <i>AIP Advances</i> , 2014 , 4, 117135	1.5	5
100	The Influence of β Phase on Mechanical Properties of ATI 718Plus Alloy 2014 , 769-776		2
99	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. <i>Advanced Functional Materials</i> , 2014 , 24, 6691-6699	15.6	67
98	Hierarchical ultrathin rolled-up Co(OH)(CO ₃) _{0.5} films assembled on Ni _{0.25} Co _{0.75} Sx nanosheets for enhanced supercapacitive performance. <i>RSC Advances</i> , 2014 , 4, 57458-57462	3.7	4

97	Controllable synthesis and enhanced electrocatalysis of iron-based catalysts derived from electrospun nanofibers. <i>Small</i> , 2014 , 10, 4072-9	11	26
96	Triboelectric Nanogenerators as a Self-Powered Motion Tracking System. <i>Advanced Functional Materials</i> , 2014 , 24, 5059-5066	15.6	64
95	AlN formation in Fe-Al alloys in N ₂ -O ₂ atmospheres. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 296-304	1.6	5
94	Polarization Structures of Topological Domains in Multiferroic Hexagonal Manganites. <i>Journal of the American Ceramic Society</i> , 2014 , 97, 3371-3373	3.8	8
93	p-n Junction Silicon Nanowire Arrays for Photovoltaic Applications 2013 , 271-294		
92	Quantitative experimental determination of site-specific magnetic structures by transmitted electrons. <i>Nature Communications</i> , 2013 , 4, 1395	17.4	61
91	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. <i>Applied Physics Letters</i> , 2013 , 103, 032901	3.4	18
90	Morphology-controlled synthesis of ZnO 3D hierarchical structures and their photocatalytic performance. <i>CrystEngComm</i> , 2012 , 14, 8626	3.3	67
89	Lattice Strain Distributions in Individual Dealloyed Pt-Fe Catalyst Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 934-8	6.4	104
88	Subangstrom profile imaging of relaxed ZnO(10 10) surfaces. <i>Nano Letters</i> , 2012 , 12, 704-8	11.5	24
87	The comprehensive phase evolution for Bi ₂ Te ₃ topological compound as function of pressure. <i>Journal of Applied Physics</i> , 2012 , 111, 112630	2.5	39
86	Effect of oxygen stoichiometry in LuFe ₂ O ₄ and its microstructure observed by aberration-corrected transmission electron microscopy. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 435901	1.8	9
85	Reversible Wurtzite-Tetragonal Reconstruction in ZnO(1010) Surfaces. <i>Angewandte Chemie</i> , 2012 , 124, 7864-7867	3.6	15
84	Reversible wurtzite-tetragonal reconstruction in ZnO(1010) surfaces. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7744-7	16.4	35
83	Study of γ interfacial width in a nickel-based superalloy by scanning transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2012 , 92, 541-546	1	14
82	Synthesis of hierarchical flower-like ZnO nanostructures and their functionalization by Au nanoparticles for improved photocatalytic and high performance Li-ion battery anodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 7723		336
81	ZnO based advanced functional nanostructures: synthesis, properties and applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 599-614		177
80	From proton conductive nanowires to nanofuel cells: A powerful candidate for generating electricity for self-powered nanosystems. <i>Nano Research</i> , 2011 , 4, 1099-1109	10	8

79	Structural investigations of a boron carbide nanorod with pseudo-fivefold twinned cross-section. <i>Science China Technological Sciences</i> , 2011 , 54, 2119-2122	3.5	8
78	Preparation of BST nanocrystals embedded in SiO ₂ film by magnetron sputtering for nonvolatile memory applications. <i>Science Bulletin</i> , 2011 , 56, 1139-1141		1
77	Study of γ/α Interfaces in Nickel-Based, Single-Crystal Superalloys by Scanning Transmission Electron Microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 548-552	2.3	19
76	Fiber-Based Hybrid Nanogenerators for/as Self-Powered Systems in Biological Liquid. <i>Angewandte Chemie</i> , 2011 , 123, 11388-11392	3.6	14
75	Quantifying the defect-dominated size effect of fracture strain in single crystalline ZnO nanowires. <i>Journal of Applied Physics</i> , 2011 , 109, 123504	2.5	14
74	Undulating slip in Laves phase and implications for deformation in brittle materials. <i>Physical Review Letters</i> , 2011 , 106, 165505	7.4	32
73	Direct subangstrom measurement of surfaces of oxide particles. <i>Physical Review Letters</i> , 2010 , 105, 226104	7.4	53
72	Multishell intermetallic onions by symmetrical configuration of ordered domains. <i>Physical Review Letters</i> , 2010 , 105, 225501	7.4	3
71	Ultrahigh secondary electron emission of carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 96, 213113	3.4	20
70	A Single ZnO Nanofiber-Based Highly Sensitive Amperometric Glucose Biosensor. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 9308-9313	3.8	194
69	Surface Structure of Zigzag SnO ₂ Nanobelts. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1468-1471	6.4	15
68	Electrochemical determination of L-Cysteine by an elbow shaped, Sb-doped ZnO nanowire-modified electrode. <i>Journal of Materials Chemistry</i> , 2010 , 20, 7169		66
67	Preparation of NiFe binary alloy nanocrystals for nonvolatile memory applications. <i>Science China Technological Sciences</i> , 2010 , 53, 2320-2322	3.5	3
66	The thermodynamic modeling of precious-metal-modified nickel-based superalloys. <i>Jom</i> , 2010 , 62, 35-40	2.1	2
65	Distribution of rhenium in a single crystal nickel-based superalloy. <i>Scripta Materialia</i> , 2010 , 63, 969-972	5.6	56
64	Calculations of single-crystal elastic constants made simple. <i>Computer Physics Communications</i> , 2010 , 181, 671-675	4.2	145
63	Magnetism of hexagonal closed-packed Ni nanowires from ab initio calculations. <i>Journal of Applied Physics</i> , 2009 , 105, 103906	2.5	6
62	Performance of lithium-ion cells with a γ ray radiated electrolyte. <i>Journal of Applied Electrochemistry</i> , 2009 , 39, 995-1001	2.6	5

61	One-step synthesis route of the aligned and non-aligned single crystalline β -Si ₃ N ₄ nanowires. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1-5		11
60	A luminescence enhancement approach through Si/O nanostructure. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 1171-1175		
59	Carbon-coated silicon nanowire array films for high-performance lithium-ion battery anodes. <i>Applied Physics Letters</i> , 2009 , 95, 133119	3.4	149
58	The syntheses, properties and applications of Si, ZnO, metal, and heterojunction nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 869		48
57	The Enhancement of Q-Factor of Planar Spiral Inductor With Low-Temperature Annealing. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 931-936	2.9	11
56	Theory of core-hole effects in 1s core-level spectroscopy of the first-row elements. <i>Physical Review B</i> , 2008 , 77,	3.3	94
55	Five-fold Twinned Nanorods of FCC Fe: Synthesis and Characterization. <i>Crystal Growth and Design</i> , 2008 , 8, 4340-4342	3.5	17
54	Capping Modes in PVP-Directed Silver Nanocrystal Growth: Multi-Twinned Nanorods versus Single-Crystalline Nano-Hexapods. <i>Crystal Growth and Design</i> , 2008 , 8, 1916-1923	3.5	48
53	Functional Faceted Silver Nano-Hexapods: Synthesis, Structure Characterizations, and Optical Properties. <i>Chemistry of Materials</i> , 2008 , 20, 192-197	9.6	51
52	Domain structure of adaptive orthorhombic phase in [110]-poled Pb(Mg _{1/3} Nb _{2/3})O ₃ B _{0.5} PbTiO ₃ single crystal. <i>Applied Physics Letters</i> , 2008 , 92, 132906	3.4	32
51	Effect of anneal pre-treatment of polycrystalline aluminum sheets on synthesis of highly-ordered anodic aluminum oxide membranes. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 1838-1842		2
50	Nanowire-Based High-Performance Micro Fuel Cells—One Nanowire, One Fuel Cell. <i>Advanced Materials</i> , 2008 , 20, 1644-1648	24	109
49	Hierarchical Domain Structure of Adaptive MB Phase in Pb(Mg _{1/3} Nb _{2/3})O ₃ B ₂ %PbTiO ₃ Single Crystal. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2382-2384	3.8	26
48	Making Nanostructured Ceramics from Micrometer-Sized Powders via Grain Refinement During SPS Sintering. <i>Journal of the American Ceramic Society</i> , 2008 , 91, 2475-2480	3.8	20
47	Phase Transition and Magnetism of Ni Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 6994-6997	3.8	27
46	Fabrication and Magnetism of Radial-easy-magnetized Ni Nanowire Arrays. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12669-12672	3.8	25
45	Fabrication of Silicon Nanowire Arrays with Controlled Diameter, Length, and Density. <i>Advanced Materials</i> , 2007 , 19, 744-748	24	480
44	Low-Temperature Annealing Effect of RF Inductor With FeNi-SiO_2 Granular Film. <i>IEEE Transactions on Magnetics</i> , 2007 , 43, 3457-3461	2	4

43	Stark effect and oscillator strength in a Si _{1-x} GexBi quantum disk. <i>Journal of Applied Physics</i> , 2007 , 101, 093709	2.5	2
42	Fabrication of Single-Crystalline Silicon Nanowires by Scratching a Silicon Surface with Catalytic Metal Particles. <i>Advanced Functional Materials</i> , 2006 , 16, 387-394	15.6	536
41	Structure and Electrical Properties of Ni Nanowire/Multiwalled-Carbon Nanotube/Amorphous Carbon Nanotube Heterojunctions. <i>Advanced Functional Materials</i> , 2006 , 16, 1081-1085	15.6	19
40	Transmission electron microscopy study of epitaxial La _{0.8} MnO ₃ thin films on SrTiO ₃ . <i>Philosophical Magazine</i> , 2006 , 86, 4341-4350	1.6	
39	Size dependence in one-dimensional nano-materials and one-dimensional heterojunctions. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 931, 1		
38	Radio-frequency planar integrated inductor with Permalloy-SiO ₂ /granular films. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 2334-2338	2	24
37	Uniform, axial-orientation alignment of one-dimensional single-crystal silicon nanostructure arrays. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2737-2742	16.4	393
36	Electrical transport and magnetic properties of nanostructured La _{0.67} Ca _{0.33} MnO ₃ . <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 607-610	2.6	9
35	Role of columnar grain size in magnetization of La _{0.8} MnO ₃ thin films grown by pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1423-1426	2.6	4
34	Theoretical electron energy-loss spectroscopy and its application in materials research. <i>Microscopy (Oxford, England)</i> , 2005 , 54, 293-8	1.3	4
33	Microstructural Characterization of Sintered MoSi ₂ /SiCP Composites. <i>Journal of the American Ceramic Society</i> , 2004 , 83, 992-994	3.8	7
32	Induction of superconductivity of a La ₂ CuO ₄ thin film chemically oxidized by NaClO. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 1193-1196	2.6	4
31	Anisotropic spectroscopy of nitrogen K-edge in group-III nitrides. <i>Applied Physics Letters</i> , 2004 , 84, 2784-2786	3.486	22
30	Characterization and Synthesis of Some One-dimensional Heterojunctions. <i>Microscopy and Microanalysis</i> , 2003 , 9, 330-331	0.5	
29	Nanoscale structure and magnetic properties of Nd-Fe-Nb-B-C permanent magnets. <i>IEEE Transactions on Magnetics</i> , 2003 , 39, 2194-2197	2	
28	Approach for imaging optical super-resolution based on Sb films. <i>Applied Physics Letters</i> , 2003 , 82, 1521-1523	3.523	12
27	Simulation of multiple composite coatings based on conducting plate and investigation of microwave reflectivity. <i>Microwave and Optical Technology Letters</i> , 2002 , 34, 442-445	1.2	9
26	Size effect and fatigue mechanism in ferroelectric thin films. <i>Journal of Applied Physics</i> , 2002 , 92, 4594-4598	3.598	60

25	Film thickness dependence of the NiSi-to-NiSi ₂ transition temperature in the Ni/Pt/Si(100) system. <i>Applied Physics Letters</i> , 2002 , 80, 270-272	3.4	21
24	High-energy electron irradiation study of relaxor ferroelectric Pb(Mg _{1/3} Nb _{2/3})O ₃ and Pb _{1-x} Lax[Mg(1+x)/3Nb(2x)/3]O ₃ by transmission electron microscopy. <i>Journal of Materials Research</i> , 2002 , 17, 2615-2620	2.5	3
23	Creep-induced phase transformations in a Ti-Al alloy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2002 , 82, 39-50		2
22	Cluster model calculation of N near K-edge energy-loss fine structures in hexagonal GaN crystal. <i>Science in China Series A: Mathematics</i> , 2001 , 44, 1602-1607		1
21	Axial electron channeling statistical method of site occupancy determination. <i>Science in China Series D: Earth Sciences</i> , 2001 , 44, 319-327		
20	Solid phase reaction between crystalline, (002) oriented Co film and Si(111) substrate: Preferential orientations of silicides. <i>Journal of Materials Science Letters</i> , 2001 , 20, 803-805		1
19	Growth of silicon nanowires via nickel/SiCl ₄ vapor-liquid-solid reaction. <i>Journal of Materials Science Letters</i> , 2001 , 20, 89-91		8
18	Novel synthesis of AlN nanowires with controlled diameters. <i>Journal of Materials Research</i> , 2001 , 16, 3133-3138	2.5	47
17	Electron diffraction and HREM study of a short-range ordered structure in the relaxor ferroelectric Pb(Mg _{1/3} Nb _{2/3})O ₃ . <i>Physical Review B</i> , 2001 , 65,	3.3	37
16	Comparison of the thermal stability of NiSi films in Ni/Pt/(111)Si and Ni/Pt/(100)Si systems. <i>Journal of Applied Physics</i> , 2001 , 90, 745-749	2.5	16
15	Mismatch and chemical composition analysis of vertical In _x Ga _{1-x} As quantum-dot arrays by transmission electron microscopy. <i>Applied Physics Letters</i> , 2001 , 78, 3830-3832	3.4	15
14	Ordered domains and polar clusters in lead magnesium niobate Pb(Mg _{1/3} Nb _{2/3})O ₃ . <i>Journal of Applied Physics</i> , 2001 , 89, 5048-5052	2.5	33
13	Phase transformation in fractured high temperature stress rupture Ti-48Al-2Nb(at.%). <i>Journal of Materials Science</i> , 2000 , 35, 4501-4505	4.3	1
12	Plan-view imaging of oxygen-induced reconstruction on Ag(110) surface. II. Effect of high-energy electron thinning. <i>Journal of Electron Microscopy</i> , 2000 , 49, 173-7		
11	Improvement of the thermal stability of NiSi films by using a thin Pt interlayer. <i>Applied Physics Letters</i> , 2000 , 77, 2177-2179	3.4	44
10	Reversible bending of Si ₃ N ₄ nanowire. <i>Journal of Materials Research</i> , 2000 , 15, 1048-1051	2.5	60
9	Comparison of the crystallographic and magnetic properties between Tb ₂ Fe _{16.46} Cr _{1.23} and Tb ₃ (Fe,Cr) ₂₉ single crystals. <i>Journal of Materials Research</i> , 1999 , 14, 4195-4199	2.5	
8	Nanostructure of GaN and SiC Nanowires Based on Carbon Nanotubes. <i>Journal of Materials Research</i> , 1999 , 14, 1175-1177	2.5	84

7	A study of the magnetocrystalline anisotropy of $\text{Sm}_{1-x}\text{Dy}_x\text{Fe}_{10.5}\text{Mo}_{1.5}$ ($x = 0\text{--}1.0$). <i>Journal of Materials Science</i> , 1999 , 34, 4965-4968	4.3	1
6	Coarsening kinetics from a variable-mobility Cahn-Hilliard equation: application of a semi-implicit Fourier spectral method. <i>Physical Review E</i> , 1999 , 60, 3564-72	2.4	325
5	Applications of microdiffraction related to HREM. <i>Microscopy Research and Technique</i> , 1998 , 40, 122-35	2.8	1
4	Determination of residual strains with CBED/LACBED techniques. <i>Science in China Series D: Earth Sciences</i> , 1998 , 41, 121-129		
3	Giant magneto-impedance effects in nanocrystalline soft magnetic alloy ribbons. <i>Science Bulletin</i> , 1997 , 42, 1049-1052		4
2	Electron energy loss near edge structure (ELNES), a potential technique in the studies of local atomic arrangements. <i>Ultramicroscopy</i> , 1982 , 9, 349-354	3.1	67
1	Rare-Earth Permanent Magnet SmCo_5 for Chiral Interfacial Spin-Orbitronics. <i>Advanced Functional Materials</i> , 2104426	15.6	3