Jing Zhu

List of Publications by Year in descending order

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228 papers	8,339 citations	53660 45 h-index	53109 85 g-index
236 all docs	236 docs citations	236 times ranked	10531 citing authors

#	Article	IF	Citations
1	Fabrication of Single-Crystalline Silicon Nanowires by Scratching a Silicon Surface with Catalytic Metal Particles. Advanced Functional Materials, 2006, 16, 387-394.	7.8	589
2	Fabrication of Silicon Nanowire Arrays with Controlled Diameter, Length, and Density. Advanced Materials, 2007, 19, 744-748.	11.1	535
3	Uniform, Axial-Orientation Alignment of One-Dimensional Single-Crystal Silicon Nanostructure Arrays. Angewandte Chemie - International Edition, 2005, 44, 2737-2742.	7.2	439
4	Coarsening kinetics from a variable-mobility Cahn-Hilliard equation: Application of a semi-implicit Fourier spectral method. Physical Review E, 1999, 60, 3564-3572.	0.8	386
5	Synthesis of hierarchical flower-like ZnO nanostructures and their functionalization by Au nanoparticles for improved photocatalytic and high performance Li-ion battery anodes. Journal of Materials Chemistry, 2011, 21, 7723.	6.7	369
6	Direct observation of chemical short-range order in a medium-entropy alloy. Nature, 2021, 592, 712-716.	13.7	334
7	A Single ZnO Nanofiber-Based Highly Sensitive Amperometric Glucose Biosensor. Journal of Physical Chemistry C, 2010, 114, 9308-9313.	1.5	213
8	ZnO based advanced functional nanostructures: synthesis, properties and applications. Journal of Materials Chemistry, 2011, 21, 599-614.	6.7	197
9	Calculations of single-crystal elastic constants made simple. Computer Physics Communications, 2010, 181, 671-675.	3.0	182
10	Networks of High Performance Triboelectric Nanogenerators Based on Liquidâ€“Solid Interface Contact Electrification for Harvesting Lowâ€Frequency Blue Energy. Advanced Energy Materials, 2018, 8, 1800705.	10.2	182
11	Carbon-coated silicon nanowire array films for high-performance lithium-ion battery anodes. Applied Physics Letters, 2009, 95, .	1.5	162
12	High-entropy enhanced capacitive energy storage. Nature Materials, 2022, 21, 1074-1080.	13.3	161
13	Nanowireâ€Based Highâ€Performance â€œMicro Fuel Cellsâ€• One Nanowire, One Fuel Cell. Advanced Materials, 2008, 20, 1644-1648.	11.1	126
14	Lattice Strain Distributions in Individual Dealloyed Ptâ€“Fe Catalyst Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 934-938.	2.1	124
15	Electrochemical Cathodic Protection Powered by Triboelectric Nanogenerator. Advanced Functional Materials, 2014, 24, 6691-6699.	7.8	104
16	Theory of core-hole effects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>s</mml:mi></mml:mrow></mml:math>core-level spectroscopy of the first-row elements. Physical Review B, 2008, 77, .	1.1	102
17	Coupling between Re segregation and Î³/Î³â€² interfacial dislocations during high-temperature, low-stress creep of a nickel-based single-crystal superalloy. Acta Materialia, 2014, 76, 294-305.	3.8	99
18	Nanostructure of GaN and SiC Nanowires Based on Carbon Nanotubes. Journal of Materials Research, 1999, 14, 1175-1177.	1.2	93

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19	Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. Journal of Materials Chemistry A, 2017, 5, 3336-3345.	5.2	88
20	Why Sn doping significantly enhances the dielectric properties of Ba(Ti1-xSnx)O3. Scientific Reports, 2015, 5, 8606.	1.6	84
21	Triboelectric Nanogenerators as a Selfâ€Powered Motion Tracking System. Advanced Functional Materials, 2014, 24, 5059-5066.	7.8	83
22	An overview of rhenium effect in single-crystal superalloys. Rare Metals, 2016, 35, 127-139.	3.6	82
23	Electrochemical determination of l-Cysteine by an elbow shaped, Sb-doped ZnO nanowire-modified electrode. Journal of Materials Chemistry, 2010, 20, 7169.	6.7	79
24	Evolution of superdislocation structures during tertiary creep of a nickel-based single-crystal superalloy at high temperature and low stress. Acta Materialia, 2017, 126, 336-345.	3.8	77
25	Morphology-controlled synthesis of ZnO 3D hierarchical structures and their photocatalytic performance. CrystEngComm, 2012, 14, 8626.	1.3	75
26	Hierarchical Porous Double-Shelled Electrocatalyst with Tailored Lattice Alkalinity toward Bifunctional Oxygen Reactions for Metalâ€“Air Batteries. ACS Energy Letters, 2017, 2, 2706-2712.	8.8	74
27	Electron energy loss near edge structure (ELNES), a potential technique in the studies of local atomic arrangements. Ultramicroscopy, 1982, 9, 349-354.	0.8	70
28	A self-powered system based on triboelectric nanogenerators and supercapacitors for metal corrosion prevention. Journal of Materials Chemistry A, 2015, 3, 22663-22668.	5.2	70
29	Co₉S₈ nanoparticles encapsulated in nitrogen-doped mesoporous carbon networks with improved lithium storage properties. RSC Advances, 2016, 6, 31775-31781.	1.7	69
30	Nanoparticle Decorated Ultrathin Porous Nanosheets as Hierarchical Co3O4 Nanostructures for Lithium Ion Battery Anode Materials. Scientific Reports, 2016, 6, 20592.	1.6	68
31	Size effect and fatigue mechanism in ferroelectric thin films. Journal of Applied Physics, 2002, 92, 4594-4598.	1.1	67
32	Distribution of rhenium in a single crystal nickel-based superalloy. Scripta Materialia, 2010, 63, 969-972.	2.6	67
33	Quantitative experimental determination of site-specific magnetic structures by transmitted electrons. Nature Communications, 2013, 4, 1395.	5.8	66
34	Design and understanding of core/branch-structured VS₂ nanosheets@CNTs as high-performance anode materials for lithium-ion batteries. Nanoscale, 2019, 11, 13343-13353.	2.8	66
35	Reversible bending of Si3N4 nanowire. Journal of Materials Research, 2000, 15, 1048-1051.	1.2	62
36	Direct Subangstrom Measurement of Surfaces of Oxide Particles. Physical Review Letters, 2010, 105, 226101.	2.9	60

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37	Atomic scale imaging of magnetic circular dichroism by achromatic electron microscopy. Nature Materials, 2018, 17, 221-225.	13.3	60
38	Formation of Hexagonal-Close Packed (HCP) Rhodium as a Size Effect. Journal of the American Chemical Society, 2017, 139, 575-578.	6.6	58
39	Functional Faceted Silver Nano-Hexapods: Synthesis, Structure Characterizations, and Optical Properties. Chemistry of Materials, 2008, 20, 192-197.	3.2	54
40	Novel synthesis of AlN nanowires with controlled diameters. Journal of Materials Research, 2001, 16, 3133-3138.	1.2	53
41	Capping Modes in PVP-Directed Silver Nanocrystal Growth: Multi-Twinned Nanorods versus Single-Crystalline Nano-Hexapods. Crystal Growth and Design, 2008, 8, 1916-1923.	1.4	53
42	A nanowire based triboelectric nanogenerator for harvesting water wave energy and its applications. APL Materials, 2017, 5, .	2.2	53
43	Interfacial oxygen-octahedral-tilting-driven electrically tunable topological Hall effect in ultrathin SrRuO₃ films. Journal Physics D: Applied Physics, 2019, 52, 404001.	1.3	51
44	Improvement of the thermal stability of NiSi films by using a thin Pt interlayer. Applied Physics Letters, 2000, 77, 2177-2179.	1.5	50
45	The syntheses, properties and applications of Si, ZnO, metal, and heterojunction nanowires. Journal of Materials Chemistry, 2009, 19, 869.	6.7	50
46	Undulating Slip in Laves Phase and Implications for Deformation in Brittle Materials. Physical Review Letters, 2011, 106, 165505.	2.9	46
47	Reversible phase transition induced large piezoelectric response in Sm-doped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> with a composition near the morphotropic phase boundary. Physical Review B, 2017, 95, .	1.1	46
48	Manipulation of Magnetic Properties by Oxygen Vacancies in Multiferroic YMnO₃. Advanced Functional Materials, 2016, 26, 3589-3598.	7.8	45
49	The comprehensive phase evolution for Bi2Te3 topological compound as function of pressure. Journal of Applied Physics, 2012, 111, .	1.1	44
50	Electron diffraction and HREM study of a short-range ordered structure in the relaxor ferroelectricPb(Mg1/3Nb2/3)O3. Physical Review B, 2001, 65, .	1.1	43
51	Elastic Properties of GaN Nanowires: Revealing the influence of planar defects on Young's modulus at nanoscale. Microscopy and Microanalysis, 2015, 21, 1915-1916.	0.2	42
52	Reversible Wurtziteâ€“Tetragonal Reconstruction in ZnO(10$ar 1$0) Surfaces. Angewandte Chemie - International Edition, 2012, 51, 7744-7747.	7.2	41
53	Ordered domains and polar clusters in lead magnesium niobate Pb(Mg1/3Nb2/3)O3. Journal of Applied Physics, 2001, 89, 5048-5052.	1.1	37
54	Interface reconstruction with emerging charge ordering in hexagonal manganite. Science Advances, 2018, 4, eaar4298.	4.7	37

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55	Domain structure of adaptive orthorhombic phase in [110]-poled Pb(Mg1âˆ•3Nb2âˆ•3)O3â€“30.5%PbTiO3 single crystal. Applied Physics Letters, 2008, 92, 132906.	1.5	36
56	Effect of current frequency on the mechanical properties, microstructure and texture evolution in AZ31 magnesium alloy strips during electroplastic rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 612, 406-413.	2.6	36
57	Crystal structure and encapsulation dynamics of ice II-structured neon hydrate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10456-10461.	3.3	36
58	Compositional design strategy for high performance ferroelectric oxides with perovskite structure. Ceramics International, 2017, 43, 2910-2917.	2.3	36
59	Radio-frequency planar integrated inductor with Permalloy-SiO/sub 2/ granular films. IEEE Transactions on Magnetics, 2005, 41, 2334-2338.	1.2	34
60	Visualization of Dopant Oxygen Atoms in a Bi₂Sr₂CaCu₂O₈₊_{Î´} Superconductor. Advanced Functional Materials, 2019, 29, 1903843.	7.8	34
61	Quantification of Magnetic Surface and Edge States in an FeGe Nanostripe by Off-Axis Electron Holography. Physical Review Letters, 2018, 120, 167204.	2.9	33
62	Controllable Synthesis and Enhanced Electrocatalysis of Ironâ€based Catalysts Derived From Electrospun Nanofibers. Small, 2014, 10, 4072-4079.	5.2	31
63	Interface-Confined FeO_x Adlayers Induced by Metal Support Interaction in Pt/FeO_x Catalysts. Journal of Physical Chemistry B, 2018, 122, 984-990.	1.2	30
64	Oxygen-Valve Formed in Cobaltite-Based Heterostructures by Ionic Liquid and Ferroelectric Dual-Gating. ACS Applied Materials & Interfaces, 2019, 11, 19584-19595.	4.0	30
65	Phase Transition and Magnetism of Ni Nanowire Arrays. Journal of Physical Chemistry C, 2007, 111, 6994-6997.	1.5	29
66	Hierarchical Domain Structure of Adaptive MBPhase in Pb(Mg1/3Nb2/3)O3-32%PbTiO3Single Crystal. Journal of the American Ceramic Society, 2008, 91, 2382-2384.	1.9	29
67	Oxygen deficiency induced deterioration in microstructure and magnetic properties at Y3Fe5O12/Pt interface. Applied Physics Letters, 2015, 107, .	1.5	28
68	Electronic and crystal structure changes induced by in-plane oxygen vacancies in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>YMn</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2016, 93, .	1.1	28
69	Fabrication and Magnetism of Radial-easy-magnetized Ni Nanowire Arrays. Journal of Physical Chemistry C, 2007, 111, 12669-12672.	1.5	25
70	Subangstrom Profile Imaging of Relaxed ZnO(101Ì…0) Surfaces. Nano Letters, 2012, 12, 704-708.	4.5	25
71	Film thickness dependence of the NiSi-to-NiSi2 transition temperature in the Ni/Pt/Si(100) system. Applied Physics Letters, 2002, 80, 270-272.	1.5	24
72	Competing Interfacial Reconstruction Mechanisms in La_{0.7}Sr_{0.3}MnO₃/SrTiO₃ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 24192-24197.	4.0	24

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73	Anisotropic spectroscopy of nitrogen K-edge in group-III nitrides. Applied Physics Letters, 2004, 84, 2784-2786.	1.5	22
74	Ultrahigh secondary electron emission of carbon nanotubes. Applied Physics Letters, 2010, 96, .	1.5	22
75	Ag-Modified In2O3/ZnO Nanobundles with High Formaldehyde Gas-Sensing Performance. Sensors, 2015, 15, 20086-20096.	2.1	22
76	Comparison of the thermal stability of NiSi films in Ni/Pt/(111)Si and Ni/Pt/(100)Si systems. Journal of Applied Physics, 2001, 90, 745-749.	1.1	20
77	Structure and Electrical Properties of Ni Nanowire/Multiwalled-Carbon Nanotube/Amorphous Carbon Nanotube Heterojunctions. Advanced Functional Materials, 2006, 16, 1081-1085.	7.8	20
78	Making Nanostructured Ceramics from Micrometerâ€Sized Powders via Grain Refinement During SPS Sintering. Journal of the American Ceramic Society, 2008, 91, 2475-2480.	1.9	20
79	Study of Î³/Î³â€² Interfaces in Nickel-Based, Single-Crystal Superalloys by Scanning Transmission Electron Microscopy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 548-552.	1.1	20
80	Effect of the asymmetry of dynamical electron diffraction on intensity of acquired EMCD signals. Ultramicroscopy, 2015, 148, 42-51.	0.8	20
81	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. Physical Review Letters, 2017, 118, 145501.	2.9	20
82	Atomic-scale study of topological vortex-like domain pattern in multiferroic hexagonal manganites. Applied Physics Letters, 2013, 103, 032901.	1.5	19
83	Misorientation related microstructure at the grain boundary in a nickel-based single crystal superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 640, 394-401.	2.6	19
84	Strain Concentration at the Boundaries in 5-Fold Twins of Diamond and Silicon. ACS Applied Materials & Interfaces, 2017, 9, 4253-4258.	4.0	19
85	Five-fold Twinned Nanorods of FCC Fe: Synthesis and Characterization. Crystal Growth and Design, 2008, 8, 4340-4342.	1.4	18
86	Detection of electron magnetic circular dichroism signals under zone axial diffraction geometry. Ultramicroscopy, 2016, 169, 44-54.	0.8	18
87	Controlling the 3-D morphology of Niâ€“Fe-based nanocatalysts for the oxygen evolution reaction. Nanoscale, 2019, 11, 8170-8184.	2.8	18
88	Direct Visualization of Ambipolar Mott Transition in Cuprate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CuO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></m Planes. Physical Review Letters, 2020, 125, 077002.	2.9	18
89	Surface Structure of Zigzag SnO₂ Nanobelts. Journal of Physical Chemistry Letters, 2010, 1, 1468-1471.	2.1	17
90	Quantifying the defect-dominated size effect of fracture strain in single crystalline ZnO nanowires. Journal of Applied Physics, 2011, 109, 123504.	1.1	17

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91	Atomic layer reversal on CeO2 (100) surface. Science China Materials, 2017, 60, 903-908.	3.5	17
92	The Effect of Aluminum on Microstructure and Mechanical Properties of ATI 718Plus Alloy. Materials Transactions, 2015, 56, 635-641.	0.4	16
93	Fine control over the morphology and photocatalytic activity of 3D ZnO hierarchical nanostructures: capping vs. etching. RSC Advances, 2015, 5, 56232-56238.	1.7	16
94	An in-plane magnetic chiral dichroism approach for measurement of intrinsic magnetic signals using transmitted electrons. Nature Communications, 2017, 8, 15348.	5.8	16
95	Subsurface reconstruction and saturation of surface bonds. Science Bulletin, 2018, 63, 1570-1575.	4.3	16
96	Magnetic measurement by electron magnetic circular dichroism in the transmission electron microscope. Ultramicroscopy, 2019, 201, 1-17.	0.8	16
97	Extrusion-based 3D printed magnesium scaffolds with multifunctional MgF₂and MgF₂â€“CaP coatings. Biomaterials Science, 2021, 9, 7159-7182.	2.6	16
98	Mismatch and chemical composition analysis of vertical InxGa1â^'xAs quantum-dot arrays by transmission electron microscopy. Applied Physics Letters, 2001, 78, 3830-3832.	1.5	15
99	The Enhancement of Q-Factor of Planar Spiral Inductor With Low-Temperature Annealing. IEEE Transactions on Electron Devices, 2008, 55, 931-936.	1.6	15
100	Study of Î³/Î³â€² interfacial width in a nickel-based superalloy by scanning transmission electron microscopy. Philosophical Magazine Letters, 2012, 92, 541-546.	0.5	15
101	A general way for quantitative magnetic measurement by transmitted electrons. Scientific Reports, 2016, 6, 18489.	1.6	15
102	Direct observation of multiple rotational stacking faults coexisting in freestanding bilayer MoS2. Scientific Reports, 2017, 7, 8323.	1.6	15
103	Antiferroelectric order and Ta-doped AgNbO3 with higher energy storage density. Journal of Applied Physics, 2019, 125, .	1.1	15
104	Operando characterization of conductive filaments during resistive switching in Mott VO ₂. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	15
105	Approach for imaging optical super-resolution based on Sb films. Applied Physics Letters, 2003, 82, 1521-1523.	1.5	14
106	Direct Observation of Thickness Dependence of Ferroelectricity in Freestanding BaTiO₃ Thin Film. Journal of the American Ceramic Society, 2015, 98, 2710-2712.	1.9	14
107	Oxygen adatoms and vacancies on the (110) surface of CeO2. Science China Technological Sciences, 2018, 61, 135-139.	2.0	14
108	Core structure of aã€^100ã€‰ superdislocations in a single-crystal superalloy during high-temperature and low-stress creep. Philosophical Magazine Letters, 2015, 95, 496-503.	0.5	13

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109	Charge-Lattice Coupling in Hole-Doped LuFe2O4+Î´: The Origin of Second-Order Modulation. Physical Review Letters, 2019, 122, 126401.	2.9	13
110	Effect of Oxygen Interstitial Ordering on Multiple Order Parameters in Rare Earth Ferrite. Physical Review Letters, 2019, 123, 247601.	2.9	13
111	Structure and Stability of the (001) Surface of Co₃O₄. Journal of Physical Chemistry C, 2020, 124, 25790-25795.	1.5	13
112	One-step synthesis route of the aligned and non-aligned single crystalline Î±-Si3N4 nanowires. Science in China Series D: Earth Sciences, 2009, 52, 1-5.	0.9	12
113	Electrocatalysis enhancement of iron-based catalysts induced by synergy of methanol and oxygen-containing groups. Nano Energy, 2016, 21, 265-275.	8.2	12
114	Atomic Mechanism of Hybridization-Dependent Surface Reconstruction with Tailored Functionality in Hexagonal Multiferroics. ACS Applied Materials & Interfaces, 2017, 9, 27322-27331.	4.0	12
115	The performance evaluation of direct detection electron energy-loss spectroscopy at 200ÂkV and 80ÂkV accelerating voltages. Ultramicroscopy, 2020, 212, 112942.	0.8	12
116	Rareâ€Earth Permanent Magnet SmCo₅ for Chiral Interfacial Spinâ€Orbitronics. Advanced Functional Materials, 2021, 31, 2104426.	7.8	12
117	Simulation of multiple composite coatings based on conducting plate and investigation of microwave reflectivity. Microwave and Optical Technology Letters, 2002, 34, 442-445.	0.9	11
118	Optimized electrospinning synthesis of ironâ€“nitrogenâ€“carbon nanofibers for high electrocatalysis of oxygen reduction in alkaline medium. Nanotechnology, 2015, 26, 165401.	1.3	11
119	Effect of cation ratio and order on magnetic circular dichroism in the double perovskite Sr2Fe1+Re1-O6. Ultramicroscopy, 2018, 193, 137-142.	0.8	11
120	Observation of giant interfacial spin Hall angle in Y3Fe5O12 /Pt heterostructures. Physical Review B, 2019, 100, .	1.1	11
121	Electrical transport and magnetic properties of nanostructured La0.67Ca0.33MnO3. Applied Physics A: Materials Science and Processing, 2005, 81, 607-610.	1.1	10
122	Correlation between oxygen vacancies and sites of Mn ions in YMnO3. Applied Physics Letters, 2015, 106, .	1.5	10
123	Engineering the surface of rutile TiO₂ nanoparticles with quantum pits towards excellent lithium storage. RSC Advances, 2016, 6, 66197-66203.	1.7	10
124	Mgâ€“3Alâ€“1Zn alloy strips processed by electroplastic differential speed rolling. Materials Science and Technology, 2017, 33, 215-219.	0.8	10
125	Surface termination and stoichiometry of LaAlO3(001) surface studied by HRTEM. Micron, 2020, 137, 102919.	1.1	10
126	Flexible Cation Distribution for Stabilizing a Spinel Surface. Journal of Physical Chemistry C, 2020, 124, 16431-16438.	1.5	10

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127	Growth of silicon nanowires via nickel/SiCl4 vapor-liquid-solid reaction. Journal of Materials Science Letters, 2001, 20, 89-91.	0.5	9
128	From proton conductive nanowires to nanofuel cells: A powerful candidate for generating electricity for self-powered nanosystems. Nano Research, 2011, 4, 1099-1109.	5.8	9
129	Effect of oxygen stoichiometry in LuFe₂O_{4â˜Î´}and its microstructure observed by aberration-corrected transmission electron microscopy. Journal of Physics Condensed Matter, 2012, 24, 435901.	0.7	9
130	Polarization Structures of Topological Domains in Multiferroic Hexagonal Manganites. Journal of the American Ceramic Society, 2014, 97, 3371-3373.	1.9	9
131	Disparity of secondary electron emission in ferroelectric domains of YMnO₃. Applied Physics Letters, 2015, 107, 032901.	1.5	9
132	Sub-solvus Cellular Recrystallization and P Phase Formation in a Single-Crystal Superalloy Containing Re. Acta Metallurgica Sinica (English Letters), 2015, 28, 72-76.	1.5	9
133	Atomic insight into spin, charge and lattice modulations at SrFeO3â˜'x/SrTiO3 interfaces. Nanoscale, 2021, 13, 6066-6075.	2.8	9
134	Surface Structures of Mn₃O₄ and the Partition of Oxidation States of Mn. Journal of Physical Chemistry Letters, 2021, 12, 5675-5681.	2.1	9
135	A macro-nano-atomicâ€“scale high-throughput approach for material research. Science Advances, 2021, 7, eabj8804.	4.7	9
136	Microstructural Characterization of Sintered MoSi₂/SiC_P Composites. Journal of the American Ceramic Society, 2000, 83, 992-994.	1.9	8
137	Structural investigations of a boron carbide nanorod with pseudo-fivefold twinned cross-section. Science China Technological Sciences, 2011, 54, 2119-2122.	2.0	8
138	Atomic-scale structure characteristics of antiferroelectric silver niobate. Applied Physics Letters, 2018, 113, .	1.5	8
139	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. Advanced Electronic Materials, 2019, 5, 1800827.	2.6	8
140	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic LuFeO₃. Nano Letters, 2021, 21, 6648-6655.	4.5	8
141	Atomic origin of the coexistence of high critical current density and high Tc in CuBa2Ca3Cu4O10+Î´ superconductors. NPG Asia Materials, 2022, 14, .	3.8	8
142	Magnetism of hexagonal closed-packed Ni nanowires from ab initio calculations. Journal of Applied Physics, 2009, 105, 103906.	1.1	7
143	Evaluation of stacking faults and associated partial dislocations in AlSb/GaAs (001) interface by aberration-corrected high-resolution transmission electron microscopy. AIP Advances, 2014, 4, .	0.6	7
144	Modulating Magnetic Properties by Tailoring In-Plane Domain Structures in Hexagonal YMnO₃ Films. ACS Applied Materials & Interfaces, 2016, 8, 25379-25385.	4.0	7

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145	Microscopic origin of the high piezoelectric response of Sm-doped BiFeO3 near the morphotropic phase boundary. Journal of Applied Physics, 2019, 125, 175113.	1.1	7
146	Induction of superconductivity of a La2CuO4 thin film chemically oxidized by NaClO. Applied Physics A: Materials Science and Processing, 2004, 78, 1193-1196.	1.1	6
147	Performance of lithium-ion cells with a Î³-ray radiated electrolyte. Journal of Applied Electrochemistry, 2009, 39, 995-1001.	1.5	6
148	Embedding Ba Monolayers and Bilayers in Boron Carbide Nanowires. Scientific Reports, 2015, 5, 16960.	1.6	6
149	Atomic Structure and Properties of SnO₂ (100) and (101) Surfaces and (301) Steps in the (100) Surface. Journal of Physical Chemistry C, 2020, 124, 27631-27636.	1.5	6
150	Atomic structure and properties of a perovskite/spinel (111) interface. Physical Review B, 2020, 102, .	1.1	6
151	Controlling Strain Relaxation by Interface Design in Highly Lattice-Mismatched Heterostructure. Nano Letters, 2021, 21, 6867-6874.	4.5	6
152	Detection of magnetic circular dichroism in amorphous materials utilizing a single-crystalline overlayer. Physical Review Materials, 2017, 1, .	0.9	6
153	Atomic structures of twin boundaries in CoO. Physical Chemistry Chemical Physics, 2021, 23, 25590-25596.	1.3	6
154	Giant magneto-impedance effects in nanocrystalline soft magnetic alloy ribbons. Science Bulletin, 1997, 42, 1049-1052.	1.7	5
155	Theoretical electron energy-loss spectroscopy and its application in materials research. Microscopy (Oxford, England), 2005, 54, 293-298.	0.7	5
156	Al<scp>N</scp> formation in Feâ€<scp>A</scp>l alloys in N₂â€<scp>O</scp>₂ atmospheres. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 296-304.	0.8	5
157	Experimental measurements and theoretical calculations of the atomic structure of materials with subangstrom resolution and picometer precision. Science Bulletin, 2014, 59, 1719-1724.	1.7	5
158	Kinetics simulation and experimental observation of fine microstructure of 9%Ni cryogenic steel processed by QLT heat treatment. Science Bulletin, 2014, 59, 1765-1772.	1.7	5
159	Atomic-scale insights into quantum-order parameters in bismuth-doped iron garnet. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	5
160	Role of columnar grain size in magnetization of La0.8MnO3 thin films grown by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2005, 81, 1423-1426.	1.1	4
161	Stark effect and oscillator strength in a Si1â^'xGexâ•Si quantum disk. Journal of Applied Physics, 2007, 101, 093709.	1.1	4
162	Low-Temperature Annealing Effect of RF Inductor With ${hbox{FeNi-SiO}}_{2}$ Granular Film. IEEE Transactions on Magnetics, 2007, 43, 3457-3461.	1.2	4

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