

# Yimei Zhu

## List of Publications by Year in descending order

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424  
papers

17,102  
citations

16451

64  
h-index

20961

115  
g-index

439  
all docs

439  
docs citations

439  
times ranked

24070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Exploring the Spatial Control of Topotactic Phase Transitions Using Vertically Oriented Epitaxial Interfaces. Nano-Micro Letters, 2022, 14, 2.	27.0	3
2	Reconfigurable perovskite nickelate electronics for artificial intelligence. Science, 2022, 375, 533-539.	12.6	93
3	Origin of insulating and nonferromagnetic $\text{SrRuO}_3$ monolayers. Physical Review B, 2022, 105, .	8.2	1
4	Nanoscale-Femtosecond Imaging of Evanescent Surface Plasmons on Silver Film by Photon-Induced Near-Field Electron Microscopy. Nano Letters, 2022, 22, 2009-2015.	9.1	4
5	Polaronic Conductivity in $\text{Cr}_2\text{Ge}_2\text{Te}_6$ Single Crystals. Advanced Functional Materials, 2022, 32, .	14.9	7
6	Interferometric bunch length measurements of 3 MeV picocoulomb electron beams. Journal of Applied Physics, 2022, 131, 084901.	2.5	0
7	Cascade of Spin-State Transitions in the Intermetallic Marcasite $\text{FeP}_2$ . Chemistry of Materials, 2022, 34, 2025-2033.	6.7	3
8	Composition-dependent ordering transformations in Pt-Fe nanoalloys. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2117899119.	7.1	10
9	Electrostatic Asymmetry of Wurtzite Nanocrystals and Resulting Photocatalytic Properties. Journal of Physical Chemistry C, 2022, 126, 4751-4761.	3.1	0
10	Toward fully automated UED operation using two-stage machine learning model. Scientific Reports, 2022, 12, 4240.	3.3	2
11	Stroboscopic ultrafast imaging using RF strip-lines in a commercial transmission electron microscope. Ultramicroscopy, 2022, 235, 113497.	1.9	14
12	Photoinduced evolution of lattice orthorhombicity and conceivably enhanced ferromagnetism in $\text{LaMnO}_3$ membranes. Npj Quantum Materials, 2022, 7, .	5.2	8
13	Enhanced tunneling electroresistance effect by designing interfacial ferroelectric polarization in multiferroic tunnel junctions. Physical Review B, 2022, 105, .	3.2	1
14	Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. Nature Materials, 2022, 21, 754-760.	27.5	60
15	Direct Detection of V-V Atom Dimerization and Rotation Dynamic Pathways upon Ultrafast Photoexcitation in $\text{VO}_2$ . Physical Review X, 2022, 12, .	8.9	6
16	$\text{Eu}_5\text{Al}_3\text{Sb}_6$ : $\text{Al}_4$ Tetrahedra Embedded in a Rock-Salt-Like Structure. Chemistry of Materials, 2022, 34, 5009-5019.	6.7	0
17	Anomalous Hall effect and perpendicular magnetic anisotropy in ultrathin ferrimagnetic $\text{NiCo}_2\text{O}_4$ films. Applied Physics Letters, 2022, 120, .	3.3	11
18	Impact of sodium vanadium oxide ( $\text{NaV}_3\text{O}_8$ , NVO) material synthesis conditions on charge storage mechanism in Zn-ion aqueous batteries. Physical Chemistry Chemical Physics, 2021, 23, 8607-8617.	2.8	10

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19	Effect of surface steps on chemical ordering in the subsurface of Cu(Au) solid solutions. Physical Review B, 2021, 103, .	3.2	5
20	Vacancy defect control of colossal thermopower in FeSb <sub>2</sub> . Npj Quantum Materials, 2021, 6, .	5.2	13
21	<i>Operando</i> characterization of conductive filaments during resistive switching in Mott VO <sub>2</sub> . Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	15
22	Visualizing lattice dynamic behavior by acquiring a single time-resolved MeV diffraction image. Journal of Applied Physics, 2021, 129, 054901.	2.5	4
23	Observation and Control of Unidirectional Ballistic Dynamics of Nanoparticles at a Liquid-Gas Interface by 4D Electron Microscopy. ACS Nano, 2021, 15, 6801-6810.	14.6	3
24	Ingredients for enhanced thermoelectric power at cryotemperatures in the correlated semiconductor CoSbS revealed by its optical response. Physical Review B, 2021, 103, .	3.2	1
25	Strain-Induced Atomic-Scale Building Blocks for Ferromagnetism in Epitaxial LaCoO <sub>3</sub> . Nano Letters, 2021, 21, 4006-4012.	9.1	15
26	Formation of dislocations via misfit strain across interfaces in epitaxial BaTiO <sub>3</sub> and SrIrO <sub>3</sub> heterostructures. Journal of Physics Condensed Matter, 2021, 33, 275003.	1.8	4
27	Electromechanical Manipulation of Topological Defects to Yield Giant Piezoelectric Response in Epitaxial Lead Zirconate Titanate Bilayers on Silicon. Advanced Electronic Materials, 2021, 7, 2100195.	5.1	2
28	Josephson detection of time-reversal symmetry broken superconductivity in SnTe nanowires. Npj Quantum Materials, 2021, 6, .	5.2	16
29	Coexistence and Coupling of Multiple Charge Orderings and Spin States in Hexagonal Ferrite. Nano Letters, 2021, 21, 5782-5787.	9.1	2
30	Cation and anion topotactic transformations in cobaltite thin films leading to Ruddlesden-Popper phases. Physical Review Materials, 2021, 5, .	2.4	7
31	Expanding the capabilities of the RF stroboscopic TEM. Microscopy and Microanalysis, 2021, 27, 2708-2708.	0.4	0
32	In situ cryo-electron microscopy of two-dimensional van der Waals magnets. Microscopy and Microanalysis, 2021, 27, 326-328.	0.4	0
33	Investigations of magneto-elastic coupling in a multiferroic ferrite by in-situ precession diffraction. Microscopy and Microanalysis, 2021, 27, 2166-2168.	0.4	0
34	Antiphase-Boundary-Engineered Domain Switching in a (110)-Oriented BiFeO <sub>3</sub> Film. ACS Applied Electronic Materials, 2021, 3, 3226-3233.	4.3	4
35	Accurate prediction of mega-electron-volt electron beam properties from UED using machine learning. Scientific Reports, 2021, 11, 13890.	3.3	3
36	In-situ electron microscopy study of non-volatile resistive switching in Mott insulator VO <sub>2</sub> . Microscopy and Microanalysis, 2021, 27, 2162-2164.	0.4	0

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37	Radiation damage study of organic molecules via laser-free ultrafast transmission electron microscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 3358-3359.	0.4	1
38	Local and Bulk Probe of Vanadium-Substituted $\delta$ -Manganese Oxide ( $\text{K}_x\text{V}_y\text{Mn}_{8-y}\text{O}_{16}$ ) Lithium Electrochemistry. <i>Inorganic Chemistry</i> , 2021, 60, 10398-10414.	4.0	3
39	Signature of Many-Body Localization of Phonons in Strongly Disordered Superlattices. <i>Nano Letters</i> , 2021, 21, 7419-7425.	9.1	1
40	Critical Role of Sc Substitution in Modulating Ferroelectricity in Multiferroic $\text{LuFeO}_3$ . <i>Nano Letters</i> , 2021, 21, 6648-6655.	9.1	8
41	Photoinduced Topological Insulator to Dirac Semimetal Transition in $\text{ZrTe}_5$ . <i>Microscopy and Microanalysis</i> , 2021, 27, 2718-2719.	0.4	0
42	Interplay between charge ordering and geometric ferroelectricity in $\text{LuFe}_2\text{O}_4/\text{LuFeO}_3$ superlattices. <i>Physical Review Materials</i> , 2021, 5, .	2.4	0
43	Toward the Understanding of the Reaction Mechanism of $\text{Zn}/\text{MnO}_2$ Batteries Using Non-alkaline Aqueous Electrolytes. <i>Chemistry of Materials</i> , 2021, 33, 7283-7289.	6.7	27
44	Cryogenic Electron Microscopy on Strongly Correlated Quantum Materials. <i>Accounts of Chemical Research</i> , 2021, 54, 3518-3528.	15.6	10
45	Inherent stochasticity during insulator-metal transition in $\text{VO}_2$ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	15
46	Potassium-Containing $\delta$ - $\text{MnO}_2$ Nanotubes: The Impact of Hollow Regions on Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2021, 168, 090559.	2.9	2
47	Topological spin/structure couplings in layered chiral magnet $\text{Cr}_{1/3}\text{TaS}_2$ : The discovery of spiral magnetic superstructure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	21
48	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. <i>Science Advances</i> , 2021, 7, .	10.3	14
49	Synthesis of Narrow SnTe Nanowires Using Alloy Nanoparticles. <i>ACS Applied Electronic Materials</i> , 2021, 3, 184-191.	4.3	10
50	Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. <i>Advanced Materials</i> , 2021, 33, e2106371.	21.0	62
51	Re-entrance to a ferromagnetic insulator with oxygen-vacancy ordering in the $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3/\text{SrTiO}_3$ superlattice. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26717-26726.	10.3	2
52	Abrupt orthorhombic relaxation in compressively strained ultrathin $\text{SrRuO}_3$ films. <i>Physical Review Materials</i> , 2021, 5, .	2.4	11
53	Nanoscale-correlated octahedral rotations in $\text{BaZrO}_3$ . <i>Physical Review B</i> , 2021, 104, .		
54	Scalable Synthesis of the Transparent Conductive Oxide $\text{SrVO}_3$ . <i>Advanced Electronic Materials</i> , 2020, 6, 1900584.	5.1	14

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55	Visualizing quantum phenomena at complex oxide interfaces: An atomic view from scanning transmission electron microscopy. <i>Frontiers of Physics</i> , 2020, 15, 1.	5.0	5
56	Room-temperature Skyrmion Thermopower in $\text{Fe}_3\text{Sn}_2$ . <i>Advanced Quantum Technologies</i> , 2020, 3, 2000058.	3.9	12
57	Unusual electrical conductivity driven by localized stoichiometry modification at vertical epitaxial interfaces. <i>Materials Horizons</i> , 2020, 7, 3217-3225.	12.2	5
58	Homochiral Skyrmionic Bubbles in Exfoliated 2D Van Der Waals $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . <i>Microscopy and Microanalysis</i> , 2020, 26, 2138-2140.	0.4	0
59	Direct visualization of electromagnetic wave dynamics by laser-free ultrafast electron microscopy. <i>Science Advances</i> , 2020, 6, .	10.3	28
60	Mapping valence electron distributions with multipole density formalism using 4D-STEM. <i>Ultramicroscopy</i> , 2020, 219, 113095.	1.9	11
61	Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous $\text{Zn}/\text{MnO}_2$ batteries. <i>Energy and Environmental Science</i> , 2020, 13, 4322-4333.	30.8	72
62	Magnesium Todorokite: Influence of Morphology on Electrochemistry in Lithium, Sodium and Magnesium Based Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110528.	2.9	3
63	A Metal-on-Metal Growth Approach to Metal-Shell Nanostructures with Plasmonic Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 17191-17203.	3.1	3
64	Nanoscale-femtosecond dielectric response of Mott insulators captured by two-color near-field ultrafast electron microscopy. <i>Nature Communications</i> , 2020, 11, 5770.	12.8	27
65	Emergent Spin Glass Behavior Created by Self-Assembled Antiferromagnetic $\text{NiO}$ Columns in Ferrimagnetic $\text{NiFe}_2\text{O}_4$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 38788-38795.	8.0	5
66	Toward monochromated sub-nanometer UEM and femtosecond UED. <i>Scientific Reports</i> , 2020, 10, 16171.	3.3	8
67	Controlled Nucleation and Stabilization of Ferroelectric Domain Wall Patterns in Epitaxial (110) Bismuth Ferrite Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2003571.	14.9	8
68	Tuning Irreversible Magnetoresistance in $\text{Pr}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Film via Octahedral Rotation. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 43222-43230.	8.0	4
69	Photoinduced Dirac semimetal in $\text{ZrTe}_5$ . <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	21
70	Bloch Chirality Induced by an Interlayer Dzyaloshinskii-Moriya Interaction in Ferromagnetic Multilayers. <i>Physical Review Letters</i> , 2020, 125, 227203.	7.8	30
71	Nonmonotonic crossover in electronic phase separated manganite superlattices driven by the superlattice period. <i>Physical Review B</i> , 2020, 102, .	3.2	6
72	Nonequilibrium Electron and Lattice Dynamics of Strongly Correlated Quantum Materials. <i>Microscopy and Microanalysis</i> , 2020, 26, 210-211.	0.4	1

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73	Charge Ordering in Manganite and Ferrite Systems. <i>Microscopy and Microanalysis</i> , 2020, 26, 2546-2548.	0.4	1
74	Unraveling the Dissolution-Mediated Reaction Mechanism of $\text{LiMnO}_2$ Cathodes for Aqueous Zn-Ion Batteries. <i>Small</i> , 2020, 16, e2005406.	10.0	58
75	Superconductivity found in meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7645-7649.	7.1	26
76	Concurrent probing of electron-lattice dephasing induced by photoexcitation in $\text{TaSeTe}$ using ultrafast electron diffraction. <i>Physical Review B</i> , 2020, 101, .	4.2	6
77	Metastability and Reversibility of Anionic Redox-Based Cathode for High-Energy Rechargeable Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100028.	5.6	37
78	Vanadium-Substituted Tunnel Structured Silver Hollandite ( $\text{Ag}_{1.2}\text{V}_x\text{Mn}_{8-x}\text{O}_{16}$ ): Impact on Morphology and Electrochemistry. <i>Inorganic Chemistry</i> , 2020, 59, 3783-3793.	4.0	4
79	Direct Observation of Alternating Octahedral and Prismatic Sodium Layers in $\text{O}_3$ -type Transition Metal Oxides. <i>Advanced Energy Materials</i> , 2020, 10, 2001151.	19.5	39
80	The effects of vanadium substitution on one-dimensional tunnel structures of cryptomelane: Combined TEM and DFT study. <i>Nano Energy</i> , 2020, 71, 104571.	16.0	11
81	Kinetic pathways of ionic transport in fast-charging lithium titanate. <i>Science</i> , 2020, 367, 1030-1034.	12.6	197
82	Laser-free GHz stroboscopic transmission electron microscope: Components, system integration, and practical considerations for pump-probe measurements. <i>Review of Scientific Instruments</i> , 2020, 91, 021301.	1.3	28
83	New Insights into the Reaction Mechanism of Sodium Vanadate for an Aqueous Zn Ion Battery. <i>Chemistry of Materials</i> , 2020, 32, 2053-2060.	6.7	37
84	The performance evaluation of direct detection electron energy-loss spectroscopy at 200 kV and 80 kV accelerating voltages. <i>Ultramicroscopy</i> , 2020, 212, 112942.	1.9	12
85	Water-induced formation of an alkali-ion dimer in cryptomelane nanorods. <i>Chemical Science</i> , 2020, 11, 4991-4998.	7.4	2
86	Origin of the large voltage-controlled magnetic anisotropy in a Cr/Fe/MgO junction with an ultrathin Fe layer: First-principles investigation. <i>Physical Review B</i> , 2020, 101, .	3.2	15
87	Origin of plane magnetic anisotropy enhancement in $\text{LiMnPO}_4$ . <i>Physical Review B</i> , 2020, 101, .	3.2	8
88	Scaling, rotation, and channeling behavior of helical and skyrmion spin textures in thin films of Te-doped $\text{Cu}_2\text{OSeO}_3$ . <i>Science Advances</i> , 2020, 6, eaax2138.	10.3	19
89	Picoscale structural insight into superconductivity of monolayer $\text{FeSe/SrTiO}_3$ . <i>Science Advances</i> , 2020, 6, eaay4517.	10.3	24
90	Unconventional domain-wall pairs and interacting Bloch lines in a Dzyaloshinskii-Moriya multilayer thin film. <i>Physical Review B</i> , 2020, 102, .	3.2	5

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91	Interfacial electronic states of misfit heterostructure between hexagonal ZnO and cubic NiO. Physical Review Materials, 2020, 4, .	2.4	5
92	Homogeneous superconducting gap in $\text{DyBa}_7\text{O}\tilde{\text{a}}\tilde{\text{r}}\tilde{\text{I}}$ synthesized by oxide molecular beam epitaxy. Physical Review Materials, 2020, 4, .		
93	Visualizing Hidden States and Spin Dynamics Using Ultrafast Electron Phase Microscopy. Microscopy and Microanalysis, 2020, 26, 2490-2492.	0.4	0
94	Quantitative Analysis of Topological, Chiral Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in Co/Pd Multilayers. Microscopy and Microanalysis, 2019, 25, 22-23.	0.4	0
95	Room temperature local nematicity in FeSe superconductor. Physical Review B, 2019, 100, .	3.2	25
96	Deterministic Ferroelastic Domain Switching Using Ferroelectric Bilayers. Nano Letters, 2019, 19, 5319-5326.	9.1	15
97	Cooling Induced Surface Reconstruction during Synthesis of High-Ni Layered Oxides. Advanced Energy Materials, 2019, 9, 1901915.	19.5	34
98	Emerging Microscopy for Quantum Information Sciences. Microscopy and Microanalysis, 2019, 25, 928-929.	0.4	0
99	Dynamical Diffraction Calculations of Incommensurate Modulations in Crystals. Microscopy and Microanalysis, 2019, 25, 1928-1929.	0.4	2
100	The in situ Studies on the Anomalous Domain Switching Caused by Trace Amount of Oxygen Vacancies. Microscopy and Microanalysis, 2019, 25, 1888-1889.	0.4	0
101	Transmission Electron Microscopy and Electron Energy-Loss Spectroscopy Studies of Hole-Selective Molybdenum Oxide Contacts in Silicon Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 43075-43080.	8.0	11
102	Atomically imaged crystal structure and normal-state properties of superconducting $\text{Ca}_{10}\text{Pt}_4\text{As}_8((\text{Fe}_{1-x}\text{Pt}_x)_2\text{As}_2)_5$ . Physical Review B, 2019, 100, .	3.2	3
103	Topological Magnetic-Spin Textures in Two-Dimensional van der Waals $\text{Cr}_2\text{Ge}_2\text{Te}_6$ . Nano Letters, 2019, 19, 7859-7865.	9.1	116
104	Thickness-dependent polarization-induced intrinsic magnetoelectric effects in $\text{L}_a\text{MnO}_3$ . Physical Review Letters, 2019, 123, 117201.	3.2	24
105	Tunable electron beam pulser for picoseconds stroboscopic microscopy in transmission electron microscopes. Ultramicroscopy, 2019, 207, 112829.	1.9	23
106	Strong Orbital Polarization in a Cobaltate-Titanate Oxide Heterostructure. Physical Review Letters, 2019, 123, 117201.	7.8	14
107	Thickness-dependent magnetic order in $\text{CrI}_3$ single crystals. Scientific Reports, 2019, 9, 13599.	3.3	47
108	Anisotropic magnetocaloric effect in $\text{Fe}_3\text{xGeTe}_2$ . Scientific Reports, 2019, 9, 13233.	3.3	22

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109	Revealing the Effects of Trace Oxygen Vacancies on Improper Ferroelectric Manganite with In Situ Biasing. <i>Advanced Electronic Materials</i> , 2019, 5, 1800827.	5.1	8
110	Direct 12-Electron Oxidation of Ethanol on a Ternary Au(core)-PtIr(Shell) Electrocatalyst. <i>Journal of the American Chemical Society</i> , 2019, 141, 9629-9636.	13.7	143
111	Atomic-level tunnel engineering of todorokite MnO <sub>2</sub> for precise evaluation of lithium storage mechanisms by in situ transmission electron microscopy. <i>Nano Energy</i> , 2019, 63, 103840.	16.0	17
112	Quantification of Mixed Bloch-Néel Topological Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Co} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Pd} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Pd} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle$ . <i>Physical Review Letters</i> , 2019, 122, 237201.	7.8	40
113	Record High-Proximity-Induced Anomalous Hall Effect in (BiSb <sub>1-x</sub> ) <sub>2</sub> Te <sub>3</sub> Thin Film Grown on CrGeTe <sub>3</sub> Substrate. <i>Nano Letters</i> , 2019, 19, 4567-4573.	9.1	34
114	Photoinduced dynamics of nematic order parameter in FeSe. <i>Physical Review B</i> , 2019, 99, .	3.2	14
115	Atomic-scale determination of spontaneous magnetic reversal in oxide heterostructures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 10309-10316.	7.1	18
116	Low-temperature microstructural studies on superconducting CaFe <sub>2</sub> As <sub>2</sub> . <i>Scientific Reports</i> , 2019, 9, 6393.	3.3	4
117	Quantification of Charge Transfer at the Interfaces of Oxide Thin Films. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4632-4637.	2.5	5
118	Multi-electron transfer enabled by topotactic reaction in magnetite. <i>Nature Communications</i> , 2019, 10, 1972.	12.8	28
119	A compact tunable quadrupole lens for brighter and sharper ultra-fast electron diffraction imaging. <i>Scientific Reports</i> , 2019, 9, 5115.	3.3	9
120	Charge-Lattice Coupling in Hole-Doped LuFe <sub>2</sub> O <sub>4</sub> + $\delta$ : The Origin of Second-Order Modulation. <i>Physical Review Letters</i> , 2019, 122, 126401.	7.8	13
121	Controlling the 3-D morphology of NiFe-based nanocatalysts for the oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 8170-8184.	5.6	18
122	Lithium-Ion Batteries: Cooling Induced Surface Reconstruction during Synthesis of High-Ni Layered Oxides ( <i>Adv. Energy Mater.</i> 43(2019)). <i>Advanced Energy Materials</i> , 2019, 9, 1970173.	19.5	0
123	Interface-induced magnetic polar metal phase in complex oxides. <i>Nature Communications</i> , 2019, 10, 5248.	12.8	35
124	A novel nondestructive diagnostic method for mega-electron-volt ultrafast electron diffraction. <i>Scientific Reports</i> , 2019, 9, 17223.	3.3	9
125	Magnetotransport Anomaly in Room-Temperature Ferrimagnetic NiCo <sub>2</sub> O <sub>4</sub> Thin Films. <i>Advanced Materials</i> , 2019, 31, e1805260.	21.0	47
126	Designing Nanoplatelet Alloy/Nafion Catalytic Interface for Optimization of PEMFCs: Performance, Durability, and CO Resistance. <i>ACS Catalysis</i> , 2019, 9, 1446-1456.	11.2	29



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127	Pt@Ni Seed-Core-Frame Hierarchical Nanostructures and Their Conversion to Nanoframes for Enhanced Methanol Electro-Oxidation. <i>Catalysts</i> , 2019, 9, 39.	3.5	8
128	Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , 2019, 10, 93.	12.8	39
129	Confinement of Ultrasmall Cobalt Oxide Clusters within Silicalite-1 Crystals for Efficient Conversion of Fructose into Methyl Lactate. <i>ACS Catalysis</i> , 2019, 9, 1923-1930.	11.2	39
130	Surface and interface properties of $L_{a_2S_3}$ thin film grown on $KTaO_3$ . <i>Scientific Reports</i> , 2018, 8, 893.	2.4	16
131	Exchange bias and inverted hysteresis in monolithic oxide films by structural gradient. <i>Physical Review Research</i> , 2019, 1, .	3.6	5
132	Smectic and nematic phase modulations and transitions under electron beam in $Tb_2Cu_{0.83}Pd_{0.17}O_4$ . <i>Physical Review Materials</i> , 2019, 3, .	2.4	0
133	Artificial two-dimensional polar metal at room temperature. <i>Nature Communications</i> , 2018, 9, 1547.	12.8	61
134	Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018, 4, e1700682.	10.3	39
135	Tensile stress effect on epitaxial $BiFeO_3$ thin film grown on $KTaO_3$ . <i>Scientific Reports</i> , 2018, 8, 893.	3.3	13
136	Localized concentration reversal of lithium during intercalation into nanoparticles. <i>Science Advances</i> , 2018, 4, eaao2608.	10.3	50
137	Tailoring the Surface Structures of CuPt and CuPtRu 1D Nanostructures by Coupling Coreduction with Galvanic Replacement. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800053.	2.3	5
138	Evolution of Metastable Defects and Its Effect on the Electronic Properties of $MoS_2$ Films. <i>Scientific Reports</i> , 2018, 8, 6724.	3.3	40
139	Nonequilibrium electron and lattice dynamics of strongly correlated $Bi_{2-x}Sr_xCaCu_2O_{8+\delta}$ single crystals. <i>Science Advances</i> , 2018, 4, eaap7427.	10.3	58
140	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 12862-12869.	8.0	109
141	Lattice-mediated magnetic order melting in $TbMnO_3$ . <i>Physical Review B</i> , 2018, 97, .	3.3	7
142	Imaging nanoscale spatial modulation of a relativistic electron beam with a MeV ultrafast electron microscope. <i>Applied Physics Letters</i> , 2018, 112, 113102.	3.3	7
143	Direct imaging of electron transfer and its influence on superconducting pairing at $FeSe/SrTiO_3$ interface. <i>Science Advances</i> , 2018, 4, eaao2682.	10.3	82
144	Dendritic Core-Frame and Frame Multimetallic Rhombic Dodecahedra: A Comparison Study of Composition and Structure Effects on Electrocatalysis of Methanol Oxidation. <i>ChemNanoMat</i> , 2018, 4, 76-87.	2.8	11

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145	Deliberately Designed Atomic-Level Silver-Containing Interface Results in Improved Rate Capability and Utilization of Silver Hollandite for Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2018, 10, 400-407.	8.0	5
146	Unveiling the Structural Evolution of Ag <sub>1.2</sub> Mn <sub>8</sub> O <sub>16</sub> under Coulombically Controlled (De)Lithiation. Chemistry of Materials, 2018, 30, 366-375.	6.7	14
147	Revealing the Surface Effect at Atomic Scale in Silver Hollandite. Microscopy and Microanalysis, 2018, 24, 56-57.	0.4	0
148	Stroboscopic High-Duty-Cycle GHz Time-Resolved Microscope: First Proof of a Picosecond Beam Operated at GHz Level on a 200 keV Beamline. Microscopy and Microanalysis, 2018, 24, 1964-1965.	0.4	0
149	Rate-dependent Reversal of Lithium Concentration During Intercalation into Li <sub>x</sub> FePO <sub>4</sub> Nanoparticles. Microscopy and Microanalysis, 2018, 24, 1482-1483.	0.4	0
150	Optical Quenching of Magnetic Vortex Visualized In Situ by Lorentz Electron Microscopy. Microscopy and Microanalysis, 2018, 24, 912-913.	0.4	0
151	Controlled synthesis of hierarchical ZSM-5 for catalytic fast pyrolysis of cellulose to aromatics. Journal of Materials Chemistry A, 2018, 6, 21178-21185.	10.3	38
152	In-situ Probe of Lithium-ion Transport and Phase Evolution Within and Between Silver Hollandite Nanorods. Microscopy and Microanalysis, 2018, 24, 1516-1517.	0.4	0
153	Atomic Scale Analyses of Planar Defects in Cross-section Nanorods of K <sup>+</sup> Stabilized $\alpha$ -MnO <sub>2</sub> . Microscopy and Microanalysis, 2018, 24, 130-131.	0.4	0
154	Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in FeF <sub>2</sub> . Journal of the American Chemical Society, 2018, 140, 17915-17922.	13.7	41
155	Phonon localization in heat conduction. Science Advances, 2018, 4, eaat9460.	10.3	108
156	Direct Imaging of Electron Transfer and Its Influence on Superconducting Pairing at FeSe/SrTiO <sub>3</sub> Interface. Microscopy and Microanalysis, 2018, 24, 82-83.	0.4	0
157	Observation of Anisotropic Charge Density Wave in Layered 1T-TiSe <sub>2</sub> . Microscopy and Microanalysis, 2018, 24, 230-231.	0.4	0
158	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La <sub>0.67</sub> Sr <sub>0.33</sub> MnO <sub>3</sub> ) <sub>n</sub> /(SrTiO <sub>3</sub> ) <sub>n</sub> superlattice. NPG Asia Materials, 2018, 10, 931-942.	7.9	15
159	Atomic Scale Account of the Surface Effect on Ionic Transport in Silver Hollandite. Chemistry of Materials, 2018, 30, 6124-6133.	6.7	14
160	Retrieving the energy-loss function from valence electron energy-loss spectrum: Separation of bulk-, surface-losses and Cherenkov radiation. Ultramicroscopy, 2018, 194, 175-181.	1.9	8
161	Interface reconstruction with emerging charge ordering in hexagonal manganite. Science Advances, 2018, 4, eaar4298.	10.3	37
162	Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. Physical Review B, 2018, 98, .	3.2	49

#	ARTICLE	IF	CITATIONS
163	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie</i> , 2018, 130, 12540-12544.	2.0	14
164	InnenrÄ¼cktitelbild: Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering ( <i>Angew. Chem.</i> 38/2018). <i>Angewandte Chemie</i> , 2018, 130, 12765-12765.	2.0	0
165	The effect of scanning jitter on geometric phase analysis in STEM images. <i>Ultramicroscopy</i> , 2018, 194, 167-174.	1.9	8
166	Optical manipulation of magnetic vortices visualized in situ by Lorentz electron microscopy. <i>Science Advances</i> , 2018, 4, eaat3077.	10.3	39
167	Probing the pathway of an ultrafast structural phase transition to illuminate the transition mechanism in Cu <sub>2</sub> S. <i>Applied Physics Letters</i> , 2018, 113, 041904.	3.3	8
168	Colloidal Binary Supracrystals with Tunable Structural Lattices. <i>Journal of the American Chemical Society</i> , 2018, 140, 9095-9098.	13.7	53
169	Domain configurations in dislocations embedded hexagonal manganite systems: From the view of graph theory. <i>Applied Physics Letters</i> , 2018, 112, 162905.	3.3	0
170	Revealing and Rationalizing the Rich Polytypism of Todorokite MnO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2018, 140, 6961-6968.	13.7	36
171	Designing antiphase boundaries by atomic control of heterointerfaces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 9485-9490.	7.1	43
172	Design of compact ultrafast microscopes for single- and multi-shot imaging with MeV electrons. <i>Ultramicroscopy</i> , 2018, 194, 143-153.	1.9	18
173	Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12360-12364.	13.8	160
174	Linearly aligned single-chiral vortices in hexagonal manganites by $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{in} \langle \text{mml:mi} \rangle \langle \text{mml:mspace width="4pt"} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{situ} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ electric arc heating. <i>Physical Review Materials</i> , 2018, 2, .	2.4	4
175	Coherent growth of oxide films on a cleaved layered metal oxide substrate. <i>Physical Review Materials</i> , 2018, 2, .	2.4	2
176	Nonperturbative Quantum Nature of the Dislocation-Phonon Interaction. <i>Nano Letters</i> , 2017, 17, 1587-1594.	9.1	56
177	Publisher's note. <i>Ultramicroscopy</i> , 2017, 177, 14-19.	1.9	5
178	Observation of stable Néel skyrmions in cobalt/palladium multilayers with Lorentz transmission electron microscopy. <i>Nature Communications</i> , 2017, 8, 14761.	12.8	222
179	Synthesis of Copper-Silica Core-Shell Nanostructures with Sharp and Stable Localized Surface Plasmon Resonance. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5684-5692.	3.1	35
180	Optical Asymmetry and Nonlinear Light Scattering from Colloidal Gold Nanorods. <i>ACS Nano</i> , 2017, 11, 5925-5932.	14.6	23

#	ARTICLE	IF	CITATIONS
181	Sensitive Phonon-Based Probe for Structure Identification of $1T\text{-MoTe}_2$ . Journal of the American Chemical Society, 2017, 139, 8396-8399.	13.7	46
182	Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. Nature Communications, 2017, 8, 15400.	12.8	52
183	Interface-induced multiferroism by design in complex oxide superlattices. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E5062-E5069.	7.1	42
184	Superconducting order from disorder in $2H\text{-TaSe}_2$ . Npj Quantum Materials, 2017, 2, .	5.2	73
185	Electron-beam-induced-current and active secondary-electron voltage-contrast with aberration-corrected electron probes. Ultramicroscopy, 2017, 176, 80-85.	1.9	14
186	Perspectives on in situ electron microscopy. Ultramicroscopy, 2017, 180, 188-196.	1.9	26
187	Tailoring the Ag Content within the Tunnels and on the Exposed Surfaces of $\text{Li}_x\text{-MnO}_2$ Nanowires: Impact on Impedance and Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A6163-A6170.	2.9	8
188	Solar hydrogen production using epitaxial $\text{SrTiO}_3$ on a GaAs photovoltaic. Energy and Environmental Science, 2017, 10, 377-382.	30.8	46
189	Janus structured Pt-FeNC nanoparticles as a catalyst for the oxygen reduction reaction. Chemical Communications, 2017, 53, 1660-1663.	4.1	46
190	Lithiation Mechanism of Tunnel-Structured $\text{MnO}_2$ Electrode Investigated by In Situ Transmission Electron Microscopy. Advanced Materials, 2017, 29, 1703186.	21.0	52
191	Zerovalent Copper Intercalated Birnessite as a Cathode for Lithium Ion Batteries: Extending Cycle Life. Journal of the Electrochemical Society, 2017, 164, A2151-A2158.	2.9	10
192	Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by <i>in Situ</i> X-ray Absorption Fingerprints. Journal of the American Chemical Society, 2017, 139, 16591-16603.	13.7	57
193	Reversible structure manipulation by tuning carrier concentration in metastable $\text{Cu}_2\text{S}$ . Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9832-9837.	7.1	16
194	Anomalous nanoclusters, anisotropy, and electronic nematicity in the doped manganite $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ .	3.2	6
195	Synthesis of cryptomelane type $\text{Li}_x\text{-MnO}_2$ ( $\text{K}_x\text{-Mn}_8\text{O}_{16}$ ) cathode materials with tunable K content: the role of tunnel cation concentration on electrochemistry. Journal of Materials Chemistry A, 2017, 5, 16914-16928.	10.3	91
196	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, .	5.2	34
197	Electrostatic Potential Mapping by Secondary-electron Voltage-contrast and Electron-beam-induced-current in TEM. Microscopy and Microanalysis, 2017, 23, 1424-1425.	0.4	0
198	Interfaces between hexagonal and cubic oxides and their structure alternatives. Nature Communications, 2017, 8, 1474.	12.8	31

#	ARTICLE	IF	CITATIONS
199	Dirac-electron-mediated magnetic proximity effect in topological insulator/magnetic insulator heterostructures. <i>Physical Review B</i> , 2017, 96, .	3.2	29
200	Photothermal Catalysis: Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO <sub>2</sub> with High Activity and Tailored Selectivity ( <i>Adv. Sci.</i> 10/2017). <i>Advanced Science</i> , 2017, 4, .	11.2	2
201	Tunnel Structured $\hat{\pm}$ -MnO <sub>2</sub> with Different Tunnel Cations (H <sup>+</sup> , K <sup>+</sup> ) <i>J Electrochem Soc</i> , 2017, 164, A1983-A1990.	2.9	33
202	Manipulating the polar mismatch at the $\text{LaNiO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2017, 95, .	11.2	11
203	Topologically Allowed Nonsixfold Vortices in a Sixfold Multiferroic Material: Observation and Classification. <i>Physical Review Letters</i> , 2017, 118, 145501.	7.8	20
204	In Situ Probing and Synthetic Control of Cationic Ordering in Ni-Rich Layered Oxide Cathodes. <i>Advanced Energy Materials</i> , 2017, 7, 1601266.	19.5	200
205	Enhancing Electrocatalytic Performance of Bifunctional Cobalt-Manganese Oxynitride Nanocatalysts on Graphene. <i>ChemSusChem</i> , 2017, 10, 68-73.	6.8	28
206	Silver-Containing $\hat{\pm}$ -MnO <sub>2</sub> Nanorods: Electrochemistry in Na-Based Battery Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 4333-4342.	8.0	39
207	Stroboscopic High-Duty-Cycle GHz Time-Resolved Microscope: Toward Hardware Implementation and Commissioning. <i>Microscopy and Microanalysis</i> , 2017, 23, 862-863.	0.4	0
208	Deconvolution of Composition and Crystallite Size of Silver Hollandite Nanorods: Influence on Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2017, 164, A3814-A3823.	2.9	6
209	Anisotropic charge density wave in layered $\text{TeO}_2$ . <i>Physical Review Materials</i> , 2017, 1, .	2.4	11
210	Direct Visualization of Lithium Intercalation in Spinel Iron Oxide by In-Situ Bright-Field Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 760-761.	0.4	1
211	Parallel Stitching of 2D Materials. <i>Advanced Materials</i> , 2016, 28, 2322-2329.	21.0	195
212	Electron Transfer: Insights into Ionic Transport and Structural Changes in Magnetite during Multiple Electron Transfer Reactions ( <i>Adv. Energy Mater.</i> 10/2016). <i>Advanced Energy Materials</i> , 2016, 6, .	19.5	7
213	All The Catalytic Active Sites of MoS <sub>2</sub> for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 16632-16638.	13.7	664
214	Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. <i>Npj Quantum Materials</i> , 2016, 1, .	5.2	31
215	Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO <sub>2</sub> reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8011-E8020.	7.1	89
216	Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. <i>Nature Communications</i> , 2016, 7, 13335.	12.8	65

#	ARTICLE	IF	CITATIONS
217	Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. Nature Communications, 2016, 7, 11441.	12.8	162
218	Enhancing performance of PEM fuel cells: Using the Au nanoplatelet/Nafion interface to enable CO oxidation under ambient conditions. Journal of Catalysis, 2016, 339, 31-37.	6.2	14
219	Coupling of bias-induced crystallographic shear planes with charged domain walls in ferroelectric oxide thin films. Physical Review B, 2016, 94, .	3.2	9
220	Critical current density and vortex pinning in tetragonal $\text{FeS}_{1-x}\text{Se}_x$ ( $x=0,0.06$ ). Physical Review B, 2016, 94, .	3.2	18
221	Disorder-driven topological phase transition in $\text{Bi}_2\text{S}_3$ films.	3.2	19
222	Quantification of Honeycomb Number-Type Stacking Faults: Application to $\text{Na}_3\text{Ni}_2\text{BiO}_6$ Cathodes for Na-Ion Batteries. Inorganic Chemistry, 2016, 55, 8478-8492.	4.0	51
223	Direct observation of electronic-liquid-crystal phase transitions and their microscopic origin in $\text{La}_{1/3}\text{Ca}_{2/3}\text{MnO}_3$ . Scientific Reports, 2016, 6, 37624.	3.3	11
224	Interlayer electronic transport in $\text{CaMnBi}_2$ .	3.2	11
225	Electronic and crystal structure changes induced by in-plane oxygen vacancies in multiferroic $\text{YMnO}_3$ .	3.2	28
226	Tunable inverse topological heterostructure utilizing $\text{Bi}_2\text{Te}_3$ .	3.2	21
227	Magnetotransport study of Dirac fermions in $\text{YbMnBi}_2$ .	3.2	11
228	Large-Area Growth of Turbostratic Graphene on Ni(111) via Physical Vapor Deposition. Scientific Reports, 2016, 6, 19804.	3.3	103
229	Anomalously deep polarization in $\text{SrTiO}_3$ (001) interfaced with an epitaxial ultrathin manganite film. Physical Review B, 2016, 94, .	3.2	14
230	A route for a strong increase of critical current in nanostrained iron-based superconductors. Nature Communications, 2016, 7, 13036.	12.8	65
231	Gas-solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. Nature Communications, 2016, 7, 12108.	12.8	531
232	Effect of Precursor Selection on the Photocatalytic Performance of Indium Oxide Nanomaterials for Gas-Phase $\text{CO}_2$ Reduction. Chemistry of Materials, 2016, 28, 4160-4168.	6.7	52
233	In situ TEM visualization of superior nanomechanical flexibility of shear-exfoliated phosphorene. Nanoscale, 2016, 8, 13603-13610.	5.6	23
234	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. Nano Letters, 2016, 16, 4174-4180.	9.1	24

#	ARTICLE	IF	CITATIONS
235	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16845-16851.	8.0	26
236	Insights into Ionic Transport and Structural Changes in Magnetite during Multiple-Electron Transfer Reactions. <i>Advanced Energy Materials</i> , 2016, 6, 1502471.	19.5	72
237	Correlating the chemical composition and size of various metal oxide substrates with the catalytic activity and stability of as-deposited Pt nanoparticles for the methanol oxidation reaction. <i>Catalysis Science and Technology</i> , 2016, 6, 2435-2450.	4.1	29
238	Effective recycling of manganese oxide cathodes for lithium based batteries. <i>Green Chemistry</i> , 2016, 18, 3414-3421.	9.0	55
239	GHz laser-free time-resolved transmission electron microscopy: A stroboscopic high-duty-cycle method. <i>Ultramicroscopy</i> , 2016, 161, 130-136.	1.9	31
240	Proximity-Driven Enhanced Magnetic Order at Ferromagnetic-Insulator-Magnetic-Topological-Insulator Interface. <i>Physical Review Letters</i> , 2015, 115, 087201.	7.8	81
241	Band Structure Engineering and Thermoelectric Properties of Charge-Compensated Filled Skutterudites. <i>Scientific Reports</i> , 2015, 5, 14641.	3.3	41
242	The future of electron microscopy. <i>Physics Today</i> , 2015, 68, 32-38.	0.3	37
243	Graphene-Silicon Layered Structures on Single-Crystalline Ir(111) Thin Films. <i>Advanced Materials Interfaces</i> , 2015, 2, 1400543.	3.7	12
244	Low-Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers. <i>Advanced Materials</i> , 2015, 27, 4604-4610.	21.0	103
245	Mapping Valence Electron Distribution of Iron-Based Superconductors using Quantitative CBED and Precession Electron Diffraction. <i>Microscopy and Microanalysis</i> , 2015, 21, 1099-1100.	0.4	0
246	In Situ Electron Holography of Ferroelectric Thin Films. <i>Microscopy and Microanalysis</i> , 2015, 21, 1401-1402.	0.4	0
247	Superior thermoelectric performance in PbTe-PbS pseudo-binary: extremely low thermal conductivity and modulated carrier concentration. <i>Energy and Environmental Science</i> , 2015, 8, 2056-2068.	30.8	185
248	Ambient synthesis, characterization, and electrochemical activity of LiFePO <sub>4</sub> nanomaterials derived from iron phosphate intermediates. <i>Nano Research</i> , 2015, 8, 2573-2594.	10.4	10
249	Conjugated Polymers: Low-Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers ( <i>Adv. Mater.</i> 31/2015). <i>Advanced Materials</i> , 2015, 27, 4664-4664.	21.0	1
250	Record Surface State Mobility and Quantum Hall Effect in Topological Insulator Thin Films via Interface Engineering. <i>Nano Letters</i> , 2015, 15, 8245-8249.	9.1	119
251	Velocity of domain-wall motion during polarization reversal in ferroelectric thin films: Beyond Merz's Law. <i>Physical Review B</i> , 2015, 91, .	3.2	28
252	Environmental TEM Study of Electron Beam Induced Electrochemistry of Pr <sub>0.64</sub> Ca <sub>0.36</sub> MnO <sub>3</sub> Catalysts for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5301-5310.	3.1	41

#	ARTICLE	IF	CITATIONS
253	Surface determination through atomically resolved secondary-electron imaging. Nature Communications, 2015, 6, 7358.	12.8	41
254	Electric-field-induced strain effects on the magnetization of a $P\langle r \rangle S\langle S \rangle$ Vanadium-Doped Three-Dimensional Topological Insulator. Physical Review Letters, 2015, 114, 146802.	3.2	7
255	Experimental verification of the Van Vleck Nature of Long-Range Ferromagnetic Order in the Vanadium-Doped Three-Dimensional Topological Insulator. Physical Review Letters, 2015, 114, 146802.	7.8	79
256	Polytypism, polymorphism, and superconductivity in TaSe <sub>2</sub> Te. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E1174-80.	7.1	90
257	Topological effect of surface plasmon excitation in gapped isotropic topological insulator nanowires. Canadian Journal of Physics, 2015, 93, 591-598.	1.1	4
258	Ultrafast electrochemical preparation of graphene/CoS nanosheet counter electrodes for efficient dye-sensitized solar cells. RSC Advances, 2015, 5, 85822-85830.	3.6	16
259	Structural Defects of Silver Hollandite, Ag <sub>10</sub> Mn <sub>8</sub> O <sub>14</sub> Nanorods: Dramatic Impact on Electrochemistry. ACS Nano, 2015, 9, 8430-8439.	14.6	81
260	Low-Dimensional Hyperthin FeS <sub>2</sub> Nanostructures for Efficient and Stable Hydrogen Evolution Electrocatalysis. ACS Catalysis, 2015, 5, 6653-6657.	11.2	145
261	Femtosecond time-resolved MeV electron diffraction. New Journal of Physics, 2015, 17, 063004.	2.9	96
262	Pd-Cu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. Advanced Functional Materials, 2014, 24, 7520-7529.	14.9	134
263	Robust topological surface states of Bi <sub>2</sub> Se <sub>3</sub> thin films on amorphous SiO <sub>2</sub> /Si substrate and a large ambipolar gating effect. Applied Physics Letters, 2014, 104, .	3.3	28
264	Surface modified CF <sub>x</sub> cathode material for ultrafast discharge and high energy density. Journal of Materials Chemistry A, 2014, 2, 20896-20901.	10.3	83
265	Conduction at a Ferroelectric Interface. Physical Review Applied, 2014, 2, .	3.8	41
266	Nanoscale coherent intergrowthlike defects in a crystal of La <sub>1.9</sub> Ca <sub>1.1</sub> Cu <sub>2</sub> O <sub>6</sub> + $\delta$ made superconducting by high-pressure oxygen annealing. Physical Review B, 2014, 90, .	3.2	3
267	Intra-unit-cell nematic charge order in the titanium-oxypnictide family of superconductors. Nature Communications, 2014, 5, 5761.	12.8	25
268	Coherence and modality of driven interlayer-coupled magnetic vortices. Nature Communications, 2014, 5, 3760.	12.8	13
269	Gold-promoted structurally ordered intermetallic palladium cobalt nanoparticles for the oxygen reduction reaction. Nature Communications, 2014, 5, 5185.	12.8	134
270	Strong Coupling of the Iron-Quadrupole and Anion-Dipole Polarizations in Ba <sub>1-x</sub> Fe <sub>x</sub> Superconductors.	7.8	23



#	ARTICLE	IF	CITATIONS
271	Phonon scattering in $\delta$ -doped $\text{LaTiO}_3/\text{SrTiO}_3$ interfaces: Renormalization by spin-orbit interactions. <i>Physical Review B</i> , 2014, 90, .	3.2	27
272	Near-field optical effect of a core-shell nanostructure in proximity to a flat surface. <i>Journal of Chemical Physics</i> , 2014, 140, 044109.	3.0	8
273	Interface-induced nonswitchable domains in ferroelectric thin films. <i>Nature Communications</i> , 2014, 5, 4693.	12.8	120
274	Tunable THz surface plasmon polariton based on a topological insulator/layered superconductor hybrid structure. <i>Physical Review B</i> , 2014, 89, .	3.2	3
275	Unfolding of Vortices into Topological Stripes in a Multiferroic Material. <i>Physical Review Letters</i> , 2014, 112, 247601.	7.8	47
276	Structural origin of enhanced critical temperature in ultrafine multilayers of cuprate superconducting films. <i>Physical Review B</i> , 2014, 89, .	3.2	6
277	Ultrafast structural and electronic dynamics of the metallic phase in a layered manganite. <i>Structural Dynamics</i> , 2014, 1, 014501.	2.3	29
278	Discovering a Novel Sodiation in $\text{FeF}_2$ Electrodes for Sodium-Ion Batteries. <i>Microscopy and Microanalysis</i> , 2014, 20, 490-491.	0.4	1
279	Quantitative Structural Analysis of Nanoparticles Using Electron Pair Distribution Function (ePDF). <i>Microscopy and Microanalysis</i> , 2014, 20, 630-631.	0.4	1
280	Hollandites as a new class of multiferroics. <i>Scientific Reports</i> , 2014, 4, 6203.	3.3	35
281	Gauge Theory and Artificial Spin Ices: Imaging Emergent Monopoles with Electron Microscopy. , 2014, , 110-121.		0
282	Combining In Situ Synchrotron X-ray Diffraction and Absorption Techniques with Transmission Electron Microscopy to Study the Origin of Thermal Instability in Overcharged Cathode Materials for Lithium-ion Batteries. <i>Advanced Functional Materials</i> , 2013, 23, 1047-1063.	14.9	458
283	Phonon scattering of interfacial strain field between dissimilar lattices. <i>Physical Review B</i> , 2013, 87, .	3.2	14
284	Excess lithium storage and charge compensation in nanoscale $\text{Li}_4\text{Ti}_5\text{O}_{12}$ . <i>Nanotechnology</i> , 2013, 24, 424006.	2.6	37
285	Dynamic separation of electron excitation and lattice heating during the photoinduced melting of the periodic lattice distortion in $2\text{H-TaSe}_2$ . <i>Applied Physics Letters</i> , 2013, 103, .	3.3	32
286	Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421.	21.0	91
287	Anisotropic Seeded Growth of $\text{Cu}^n\text{M}$ (M = Au, Pt, or Pd) Bimetallic Nanorods with Tunable Optical and Catalytic Properties. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8924-8932.	3.1	104
288	Biomass-derived electrocatalytic composites for hydrogen evolution. <i>Energy and Environmental Science</i> , 2013, 6, 1818.	30.8	343

#	ARTICLE	IF	CITATIONS
289	Highly active and durable nanostructured molybdenum carbide electrocatalysts for hydrogen production. <i>Energy and Environmental Science</i> , 2013, 6, 943.	30.8	874
290	Origin of Phonon Glass“Electron Crystal Behavior in Thermoelectric Layered Cobaltate. <i>Advanced Functional Materials</i> , 2013, 23, 5728-5736.	14.9	47
291	Electrically controlled reversible and hysteretic magnetic domain evolution in nickel film/Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ]0.68-[PbTiO <sub>3</sub> ]0.32 (011) heterostructure. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	33
292	Magnetic imaging with a Zernike-type phase plate in a transmission electron microscope. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	11
293	Cathode Materials: Combining In Situ Synchrotron X-ray Diffraction and Absorption Techniques with Transmission Electron Microscopy to Study the Origin of Thermal Instability in Overcharged Cathode Materials for Lithium-ion Batteries ( <i>Adv. Funct. Mater.</i> 8/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1046-1046.	14.9	7
294	Mixed-valence-driven heavy-fermion behavior and superconductivity in KNi <sub>2</sub> Se <sub>2</sub> . <i>Physical Review B</i> , 2012, 86, .	3.2	71
295	Giant magneto-resistance estimated from direct observation of nanoscale ferromagnetic domain evolution in La <sub>0.325</sub> Pr <sub>0.3</sub> Ca <sub>0.375</sub> MnO <sub>3</sub> . <i>Journal of Applied Physics</i> , 2012, 112, 053924.	2.5	2
296	A Novel Chemical Synthesis of 1/4m <sup>2</sup> Reduced Graphene Oxide Sheets. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1390, 112.	0.1	0
297	STEM imaging of trimerization-polarization domain walls in hexagonal ErMnO <sub>3</sub> . <i>Microscopy and Microanalysis</i> , 2012, 18, 1358-1359.	0.4	1
298	A 3D porous architecture of Si/graphene nanocomposite as high-performance anode materials for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 7724.	6.7	193
299	Propagation of magnetic charge monopoles and Dirac flux strings in an artificial spin-ice lattice. <i>Physical Review B</i> , 2012, 85, .	3.2	50
300	Direct dynamic imaging of non-adiabatic spin torque effects. <i>Nature Communications</i> , 2012, 3, 1028.	12.8	51
301	Anomalous photoluminescence Stokes shift in CdSe nanoparticle and carbon nanotube hybrids. <i>Physical Review B</i> , 2012, 85, .	3.2	10
302	Tracking lithium transport and electrochemical reactions in nanoparticles. <i>Nature Communications</i> , 2012, 3, 1201.	12.8	254
303	In Situ Electrochemical Electron Microscopy Study of Oxygen Evolution Activity of Doped Manganite Perovskites. <i>Advanced Functional Materials</i> , 2012, 22, 3378-3388.	14.9	79
304	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics ( <i>Angew. Chem.</i> 10/2012). <i>Angewandte Chemie</i> , 2012, 124, 2562-2562.	2.0	0
305	Ferroelectric order in individual nanometre-scale crystals. <i>Nature Materials</i> , 2012, 11, 700-709.	27.5	292
306	Back Cover: Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics ( <i>Angew. Chem. Int. Ed.</i> 10/2012). <i>Angewandte Chemie - International Edition</i> , 2012, 51, 2512-2512.	13.8	0

#	ARTICLE	IF	CITATIONS
307	Chemical Distribution and Bonding of Lithium in Intercalated Graphite: Identification with Optimized Electron Energy Loss Spectroscopy. ACS Nano, 2011, 5, 1190-1197.	14.6	203
308	Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. Science, 2011, 331, 886-889.	12.6	212
309	Conversion Reaction Mechanisms in Lithium Ion Batteries: Study of the Binary Metal Fluoride Electrodes. Journal of the American Chemical Society, 2011, 133, 18828-18836.	13.7	492
310	Experimental study of resistive bistability in metal oxide junctions. Applied Physics A: Materials Science and Processing, 2011, 103, 293-300.	2.3	0
311	Wurtzite ZnO (001) films grown on cubic MgO (001) with bulk-like opto-electronic properties. Applied Physics Letters, 2011, 99, 141917.	3.3	15
312	Role of structurally and magnetically modified nanoclusters in colossal magnetoresistance. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 20941-20946.	7.1	22
313	Multiple electronic transitions and superconductivity in $\text{Pd}_x\text{Mn}_{1-x}\text{Si}$ . Physical Review B, 2010, 81, .	3.2	70
314	Complex Oxide Interfaces: Determination of Electronic Structure of Oxide-Oxide Interfaces by Photoemission Spectroscopy (Adv. Mater. 26-27/2010). Advanced Materials, 2010, 22, n/a-n/a.	21.0	0
315	Microstructure and electronic behavior of PtPd@Pt core-shell nanowires. Journal of Materials Research, 2010, 25, 711-717.	2.6	7
316	Competing two-phase coexistence in doped manganites: Direct observations by in situ Lorentz electron microscopy. Physical Review B, 2010, 82, .	3.2	29
317	In situ tunneling measurements in a transmission electron microscope on nanomagnetic tunnel junctions. Applied Physics Letters, 2010, 96, 262508.	3.3	5
318	Valence electron energy-loss spectroscopy of ultrathin SrTiO <sub>3</sub> films grown on silicon (100) single crystal. Applied Physics Letters, 2010, 96, .	3.3	7
319	The atomic structure and polarization of strained SrTiO <sub>3</sub> /Si. Applied Physics Letters, 2010, 97, 251902.	3.3	25
320	Nanoscale disorder and local electronic properties of $\text{CaCu}_2\text{Mn}_2\text{Si}_2$ . An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structure. Physical Review B, 2010, 81, .	3.2	58
321	Electric field tuned crossover from classical to weakly localized quantum transport in electron doped $\text{SrTiO}_3$ . Physical Review B, 2010, 81, .	3.2	31
322	Ferromagnetic domain structures and spin configurations measured in doped manganite. Physical Review B, 2010, 81, .	3.2	11
323	Spontaneous Growth of ZnCO <sub>3</sub> Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. Chemistry of Materials, 2010, 22, 149-154.	6.7	58
324	Gram-Scale-Synthesized Pd <sub>2</sub> Co-Supported Pt Monolayer Electrocatalysts for Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2010, 114, 8950-8957.	3.1	54

#	ARTICLE	IF	CITATIONS
325	Direct observation of the controlled magnetization reversal processes in Py/Al/Py asymmetric ring stacks. Applied Physics Letters, 2009, 95, 042501.	3.3	7
326	Controlled reversal of coupled Néel walls in flux-closure magnetic trilayer elements. Applied Physics Letters, 2009, 95, .	3.3	7
327	Direct Imaging of Nanoscale Phase Separation in $\text{La}_{0.55}\text{Ca}_{0.45}\text{MnO}_3$ Relationship to Colossal Magnetoresistance. Physical Review Letters, 2009, 103, 097202.	7.8	118
328	Characterization of JEOL 2100F Lorentz-TEM for low-magnification electron holography and magnetic imaging. Ultramicroscopy, 2008, 108, 625-634.	1.9	34
329	Position-sensitive diffractive imaging in STEM by an automated chaining diffraction algorithm. Ultramicroscopy, 2008, 108, 741-749.	1.9	4
330	Chapter 12 Aberration-Corrected Electron Microscopes at Brookhaven Microscopes at Brookhaven National Laboratory. Advances in Imaging and Electron Physics, 2008, , 481-523.	0.2	9
331	Tuning the charge density wave and superconductivity in $\text{Cu}_x\text{Bi}_{1-x}\text{Te}_2$ Physical Review B, 2008, 78, .	3.2	136
332	Structure of chemically derived mono- and few-atomic-layer boron nitride sheets. Applied Physics Letters, 2008, 93, .	3.3	481
333	Aluminum-oxide tunnel barriers with high field endurance. Applied Physics Letters, 2008, 93, 242109.	3.3	3
334	Self-organization of epitaxial $\text{La}_{0.35}\text{Pr}_{0.275}\text{Ca}_{0.375}\text{MnO}_3$ manganite nanorods on $\text{NdGaO}_3$ substrates. Journal of Applied Physics, 2008, 103, 064304.	2.5	3
335	Electric pulse induced resistance change effect in manganites due to polaron localization at the metal-oxide interfacial region. Physical Review B, 2008, 77, .	3.2	49
336	Switchable collective pinning of flux quanta using magnetic vortex arrays: Experiments on square arrays of Co dots on thin superconducting films. Physical Review B, 2008, 77, .	3.2	24
337	Diverging giant magnetoresistance in ferromagnet-superconductor-ferromagnet trilayers. Physical Review B, 2008, 78, .	3.2	7
338	Common reversal mechanisms and correlation between transient domain states and field sweep rate in patterned Permalloy structures. Journal of Applied Physics, 2007, 102, .	2.5	13
339	Correlation of edge roughness to nucleation field and nucleation field distribution in patterned Permalloy elements. Journal of Applied Physics, 2007, 102, 023916.	2.5	13
340	Defect Structures of $\text{B}_{12}\text{As}_2$ Epilayers Grown on c-plane and a-plane 6H-SiC Substrates. Materials Research Society Symposia Proceedings, 2007, 994, 1.	0.1	0
341	Polaron melting and ordering as key mechanisms for colossal resistance effects in manganites. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13597-13602.	7.1	139
342	Structural modification of twin boundaries in $\text{YBa}_2\text{Cu}_3\text{O}_{6+\delta}$ oxides: Effects of oxygen concentration and temperature. Physical Review B, 2007, 75, .	3.2	3

#	ARTICLE	IF	CITATIONS
343	Direct Measurement of the Low-Temperature Spin-State Transition in $\text{LaCoO}_3$ . Physical Review Letters, 2007, 99, 047203.	7.8	164
344	Nanoscale Disorder in $\text{CaCu}_3\text{TiO}_{12}$ : A New Route to the Enhanced Dielectric Response. Physical Review Letters, 2007, 99, 037602.	7.8	159
345	Experimental confirmation of Zener-polaron-type charge and orbital ordering in $\text{PrMnO}_3$ . Physical Review B, 2007, 76, .	3.2	71
346	Synthesis of Molybdenum Oxide Nanoplatelets during Crystallization of the Precursor Gel from Its Hybrid Nanocomposites. Chemistry of Materials, 2007, 19, 979-981.	6.7	36
347	A straightforward specimen holder modification for remnant magnetic-field measurement in TEM. Ultramicroscopy, 2007, 107, 396-400.	1.9	25
348	Direct electron imaging in electron microscopy with monolithic active pixel sensors. Ultramicroscopy, 2007, 107, 674-684.	1.9	63
349	Energy barrier to magnetic vortex nucleation. Applied Physics Letters, 2006, 88, 012508.	3.3	14
350	Characterization of Palladium Nanoparticles by Using X-ray Reflectivity, EXAFS, and Electron Microscopy. Langmuir, 2006, 22, 807-816.	3.5	93
351	Comparison of Decanethiolate Gold Nanoparticles Synthesized by One-Phase and Two-Phase Methods. Journal of Physical Chemistry B, 2006, 110, 23022-23030.	2.6	21
352	Mechanism for increasing dopant incorporation in semiconductors via doped nanostructures. Physical Review B, 2006, 73, .	3.2	10
353	New nonhydrolytic route to synthesize crystalline $\text{BaTiO}_3$ nanocrystals with surface capping ligands. Journal of Materials Research, 2006, 21, 3187-3195.	2.6	13
354	In-situ Growth of Crystalline Ge Nanowires by Using Nanotubes as Template. Microscopy and Microanalysis, 2005, 11, .	0.4	1
355	Martensitic Phase Transformation of Isolated $\text{HfO}_2$ , $\text{ZrO}_2$ , and $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ ( $0 < x < 1$ ) Nanocrystals. Advanced Functional Materials, 2005, 15, 1595-1602.	14.9	102
356	Direct correlation of reversal rate dynamics to domain configurations in micron-sized permalloy elements. Journal of Applied Physics, 2005, 97, 10E702.	2.5	12
357	Enhanced flux pinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ films by nanoscaled substrate surface roughness. Applied Physics Letters, 2005, 87, 122502.	3.3	9
358	Valence-electron distribution in $\text{MgB}_2$ by accurate diffraction measurements and first-principles calculations. Physical Review B, 2004, 69, .	3.2	44
359	On the transport of intensity technique for phase retrieval. Ultramicroscopy, 2004, 102, 37-49.	1.9	137
360	Solid-Solution Nanoparticles: Use of a Nonhydrolytic Sol-Gel Synthesis To Prepare $\text{HfO}_2$ and $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ Nanocrystals. Chemistry of Materials, 2004, 16, 1336-1342.	6.7	139

#	ARTICLE	IF	CITATIONS
361	Crystal Structure and Superconductivity of MgB <sub>2</sub> Thin Films Grown on Various Oxide Substrates. Journal of Superconductivity and Novel Magnetism, 2003, 16, 585-588.	0.5	8
362	Electron-optical phase shift of magnetic nanoparticles II. Polyhedral particles. Philosophical Magazine, 2003, 83, 1143-1161.	1.6	22
363	Electron-optical phase shift of magnetic nanoparticles I. Basic concepts. Philosophical Magazine, 2003, 83, 1045-1057.	1.6	44
364	High critical-current density in robust MgB <sub>2</sub> /Mg nanocomposites. Applied Physics Letters, 2003, 82, 2103-2105.	3.3	23
365	Accurate Measurements of Valence Electron Distribution and Interfacial Lattice Displacement Using Quantitative Electron Diffraction. Microscopy and Microanalysis, 2003, 9, 442-456.	0.4	10
366	On The Electron-Optical Phase Shift For Magnetic Nanoparticles. Microscopy and Microanalysis, 2003, 9, 316-317.	0.4	0
367	Magnetic Imaging of Nanocomposite Magnets. Microscopy and Microanalysis, 2003, 9, 478-479.	0.4	0
368	Measuring the Hole State Anisotropy in MgB <sub>2</sub> by High-Resolution Angular-Resolved Electron Energy-Loss Spectroscopy. Microscopy and Microanalysis, 2003, 9, 824-825.	0.4	0
369	Phase Retrieval and Induction Mapping of Artificially Structured Nanometric Magnetic Arrays. Microscopy and Microanalysis, 2003, 9, 308-309.	0.4	0
370	Lorentz Phase Imaging and In-situ Lorentz Microscopy of Patterned Co-Arrays.. Microscopy and Microanalysis, 2003, 9, 780-781.	0.4	0
371	In-situ Magnetodynamic Experiments Achieved with the Design of an In-plane Magnetic Field Specimen Holder. Microscopy and Microanalysis, 2003, 9, 130-131.	0.4	2
372	Electron Holography and Micromagnetic Simulations for TEM Magnetization Mapping. Microscopy and Microanalysis, 2003, 9, 778-779.	0.4	0
373	Measurement of Charge at Grain-boundary Edge Dislocations in Ca-doped and Undoped YBCO by Electron Holography. Microscopy and Microanalysis, 2003, 9, 784-785.	0.4	0
374	Electron Energy Loss Spectroscopy of CeO <sub>2-x</sub> Nanoparticles. Microscopy and Microanalysis, 2003, 9, 820-821.	0.4	1
375	Low-temperature superlattice in monoclinic PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> . Physical Review B, 2002, 66, .	3.2	65
376	Quantitative analysis of twist boundaries and stacking faults in Bi-based superconductors by parallel recording of dark-field images with a coherent electron source. Physical Review B, 2002, 66, .	3.2	11
377	Mechanisms for hetero-epitaxial nucleation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> at the buried precursor/SrTiO <sub>3</sub> interface in the postdeposition reaction process. Applied Physics Letters, 2002, 80, 419-421.	3.3	29
378	Magnetic Induction Mapping in TEM of Micro- and Nano-Patterned Co/Ni Arrays. Microscopy and Microanalysis, 2002, 8, 1344-1345.	0.4	0

#	ARTICLE	IF	CITATIONS
379	Image interpretation of magnetic domains in Nd <sub>2</sub> Fe <sub>14</sub> B hard magnets. <i>Microscopy and Microanalysis</i> , 2002, 8, 512-513.	0.4	2
380	Crystallographic Analysis of Orientational Variants in PbZr <sub>0.52</sub> Ti <sub>0.48</sub> O <sub>3</sub> Ferroelectric Perovskite. <i>Microscopy and Microanalysis</i> , 2002, 8, 664-665.	0.4	0
381	Exploring the Valence Electron Distribution in High Temperature Superconductors with a Focused Electron Probe. <i>Microscopy and Microanalysis</i> , 2002, 8, 86-87.	0.4	0
382	Phase Retrieval, Symmetrization Rule and Transport-of-Intensity Equation in Application to Induction Mapping of Magnetic Materials. <i>Microscopy and Microanalysis</i> , 2002, 8, 510-511.	0.4	0
383	Fast and Robust Phase Unwrapping Algorithm for Electron Holography. <i>Microscopy and Microanalysis</i> , 2002, 8, 532-533.	0.4	2
384	Quantitative noninterferometric Lorentz microscopy. <i>Journal of Applied Physics</i> , 2001, 89, 7177-7179.	2.5	57
385	Understanding magnetic structures in permanent magnets via in situ Lorentz microscopy, interferometric and non-interferometric phase-reconstructions. <i>Journal of Electron Microscopy</i> , 2001, 50, 447-455.	0.9	12
386	Phase Retrieval from Two Defocused Images by the Transport-Ofintensity Equation Formalism with Fast Fourier Transform. <i>Microscopy and Microanalysis</i> , 2001, 7, 430-431.	0.4	0
387	Electron Microscopy Analysis of the Intermediate Phases Formed During the Nucleation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> Film. <i>Microscopy and Microanalysis</i> , 2001, 7, 424-425.	0.4	2
388	Measuring Interface Potential of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> (001) Twist Boundaries by off-Axis Electron Holography. <i>Microscopy and Microanalysis</i> , 2001, 7, 294-295.	0.4	0
389	Nucleation and growth of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>x</sub> on SrTiO <sub>3</sub> and CeO <sub>2</sub> by a BaF <sub>2</sub> postdeposition reaction process. <i>Journal of Materials Research</i> , 2001, 16, 2869-2884.	2.6	51
390	Shock Synthesis of Nanocrystalline High-Pressure Phases in Semiconductors by High-Velocity Thermal Spray. <i>Materials Research Society Symposia Proceedings</i> , 2000, 638, 1.	0.1	0
391	Picometer Accuracy in Measuring Lattice Displacements Across Planar Faults by Interferometry in Coherent Electron Diffraction. <i>Physical Review Letters</i> , 2000, 85, 5126-5129.	7.8	31
392	Electron diffraction studies of phonon and static disorder in SrTiO <sub>3</sub> . <i>Physical Review B</i> , 2000, 61, 8814-8822.	3.2	20
393	Distinguishing between the bi-stripe and Wigner-crystal model: A crystallographic study of charge-ordered La <sub>0.33</sub> Ca <sub>0.67</sub> MnO <sub>3</sub> . <i>Physical Review B</i> , 2000, 61, 11946-11955.	3.2	39
394	Test of first-principle calculations of charge transfer and electron-hole distribution in oxide superconductors by precise measurements of structure factors. <i>Physical Review B</i> , 1999, 59, 6035-6038.	3.2	16
395	Different temperature dependences of photorefractive parameters of Ce-doped and Rh-doped BaTiO <sub>3</sub> . <i>Applied Physics B: Lasers and Optics</i> , 1999, 68, 211-215.	2.2	6
396	Structural origin of misorientation-independent superconducting behavior at [001] twist boundaries in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+<math>\delta</math></sub> . <i>Physical Review B</i> , 1998, 57, 8601-8608.	3.2	56

#	ARTICLE	IF	CITATIONS
397	Structural Defects and the Origin of the Second Length Scale in SrTiO <sub>3</sub> . Physical Review Letters, 1998, 80, 2370-2373.	7.8	94
398	On the correlation of grain boundary misorientation distribution with critical current in bulk processed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 78, 1037-1049.	0.6	3
399	Analyses of the Grain Boundary Misorientation and Oxygen Content of Bulk Processed YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Materials Research Society Symposia Proceedings, 1997, 472, 99.	0.1	0
400	Strain field and strain contrast of columnar defects in heavy-ion irradiated superconductors. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 1-10.	0.6	8
401	Core level absorption spectroscopy of perovskites and high temperature superconductors. Phase Transitions, 1996, 58, 197-205.	1.3	0
402	Microstructural and magnetic investigations into the origins of high coercivity in dielectric praseodymium-cobalt-carbon based magnets. Journal of Applied Physics, 1996, 79, 351-360.	2.5	13
403	Electron microscopy of grain boundaries: An application to RE-Fe-B (RE = Pr or Nd) magnetic materials. Philosophical Magazine Letters, 1995, 71, 297-305.	1.2	12
404	Misorientation angle distributions for large angle grain boundaries in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> and Bi <sub>2</sub> Sr <sub>2</sub> Ca <sub>2</sub> Cu <sub>3</sub> O <sub>10</sub> composite tapes. Applied Physics Letters, 1994, 65, 1832-1834.	3.3	32
405	Tetragonal-Orthorhombic Structural Modulation at Low Temperature in La <sub>2-x</sub> Ba <sub>x</sub> CuO <sub>4</sub> . Physical Review Letters, 1994, 73, 3026-3029.	7.8	53
406	Studies of the crystallography of arbitrary grain boundaries by O-lattice construction: Application to bulk YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 69, 717-728.	0.6	15
407	Three-dimensional structural modulation in doped YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 69, 397-408.	0.6	12
408	Grain-boundary constraint and oxygen deficiency in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> : Application of the coincidence site lattice model to a non-cubic system. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1994, 70, 969-984.	0.6	35
409	Diffuse scattering and image contrast of tweed in superconducting oxides: simulation and interpretation. Ultramicroscopy, 1993, 52, 539-548.	1.9	3
410	The interface of orthogonally oriented twins in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 1057-1069.	0.6	24
411	Structure of Au <sup>24+</sup> -ion-irradiation-induced defects in high-T <sub>c</sub> superconductors. Philosophical Magazine Letters, 1993, 67, 125-130.	1.2	25
412	Effects of ozone oxygenation of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin crystals. Journal of Applied Physics, 1993, 73, 3407-3410.	2.5	11
413	Fabrication and properties of textured YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> thick films on polycrystalline Ag <sub>0.9</sub> Pd <sub>0.1</sub> and silver substrates. Journal of Applied Physics, 1993, 74, 4052-4059.	2.5	3
414	Grain-boundary studies by the coincident-site lattice model and electron-energy-loss spectroscopy of the oxygen K edge in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 11-28.	0.6	64



#	ARTICLE	IF	CITATIONS
415	Twin-corner disclinations in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 1037-1044.	0.6	27
416	Planar defects induced by heavy-ion irradiation. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 68, 1079-1089.	0.6	18
417	Interpretation of tweed contrast from the $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ system. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 573-583.	0.6	12
418	Effects of 300 MeV Au <sup>24+</sup> ion irradiation on superconductivity in $\text{YBa}_2\text{Cu}_3\text{O}_7$ epitaxial films. Applied Physics Letters, 1992, 61, 985-987.	3.3	32
419	Synthesis of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ with clean grain boundaries by a modified aerosol decomposition process. Journal of Materials Research, 1992, 7, 3175-3184.	2.6	14
420	Simulation Study of Strain-Related Morphology in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}(\text{Al,Fe})_x$ . Materials Research Society Symposia Proceedings, 1992, 291, 217.	0.1	0
421	Twinning dislocations in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconductor. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 66, 457-471.	0.6	27
422	Flux pinning by heavy-ion-irradiation induced linear defects in $\text{YBa}_2\text{Cu}_3\text{O}_7$ epitaxial films. AIP Conference Proceedings, 1992, . .	0.4	0
423	Multiple diffuse scattering and tweed contrast in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ . Philosophical Magazine Letters, 1991, 64, 29-35.	1.2	25
424	Grain boundary in textured $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ superconductor. Journal of Materials Research, 1991, 6, 2507-2518.	2.6	68