

Yimei Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Highly active and durable nanostructured molybdenum carbide electrocatalysts for hydrogen production. <i>Energy and Environmental Science</i> , 2013, 6, 943. | 30.8 | 874 |
| 2 | All The Catalytic Active Sites of MoS_2 for Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2016, 138, 16632-16638. | 13.7 | 664 |
| 3 | Gas-solid interfacial modification of oxygen activity in layered oxide cathodes for lithium-ion batteries. <i>Nature Communications</i> , 2016, 7, 12108. | 12.8 | 531 |
| 4 | Conversion Reaction Mechanisms in Lithium Ion Batteries: Study of the Binary Metal Fluoride Electrodes. <i>Journal of the American Chemical Society</i> , 2011, 133, 18828-18836. | 13.7 | 492 |
| 5 | Structure of chemically derived mono- and few-atomic-layer boron nitride sheets. <i>Applied Physics Letters</i> , 2008, 93, . | 3.3 | 481 |
| 6 | 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 |
| 7 | Biomass-derived electrocatalytic composites for hydrogen evolution. <i>Energy and Environmental Science</i> , 2013, 6, 1818. | 30.8 | 343 |
| 8 | Ferroelectric order in individual nanometre-scale crystals. <i>Nature Materials</i> , 2012, 11, 700-709. | 27.5 | 292 |
| 9 | Tracking lithium transport and electrochemical reactions in nanoparticles. <i>Nature Communications</i> , 2012, 3, 1201. | 12.8 | 254 |
| 10 | Observation of stable Néel skyrmions in cobalt/palladium multilayers with Lorentz transmission electron microscopy. <i>Nature Communications</i> , 2017, 8, 14761. | 12.8 | 222 |
| 11 | Metallic and Insulating Oxide Interfaces Controlled by Electronic Correlations. <i>Science</i> , 2011, 331, 886-889. | 12.6 | 212 |
| 12 | Chemical Distribution and Bonding of Lithium in Intercalated Graphite: Identification with Optimized Electron Energy Loss Spectroscopy. <i>ACS Nano</i> , 2011, 5, 1190-1197. | 14.6 | 203 |
| 13 | 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 |
| 14 | Kinetic pathways of ionic transport in fast-charging lithium titanate. <i>Science</i> , 2020, 367, 1030-1034. | 12.6 | 197 |
| 15 | Parallel Stitching of 2D Materials. <i>Advanced Materials</i> , 2016, 28, 2322-2329. | 21.0 | 195 |
| 16 | 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 |
| 17 | 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 |
| 18 | Direct Measurement of the Low-Temperature Spin-State Transition in LaCoO_3 . <i>Physical Review Letters</i> , 2007, 99, 047203. | 7.8 | 164 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Visualizing non-equilibrium lithiation of spinel oxide via in situ transmission electron microscopy. Nature Communications, 2016, 7, 11441. | 12.8 | 162 |
| 20 | Ambient Electrosynthesis of Ammonia: Electrode Porosity and Composition Engineering. Angewandte Chemie - International Edition, 2018, 57, 12360-12364. | 13.8 | 160 |
| 21 | Nanoscale Disorder in $\text{CaCu}_3\text{O}_{12}$: A New Route to the Enhanced Dielectric Response. Physical Review Letters, 2007, 99, 037602. | 7.8 | 159 |
| 22 | Low-Dimensional Hyperthin FeS_2 Nanostructures for Efficient and Stable Hydrogen Evolution Electrocatalysis. ACS Catalysis, 2015, 5, 6653-6657. | 11.2 | 145 |
| 23 | Direct 12-Electron Oxidation of Ethanol on a Ternary Au(core)-PtIr(Shell) Electrocatalyst. Journal of the American Chemical Society, 2019, 141, 9629-9636. | 13.7 | 143 |
| 24 | Solid-Solution Nanoparticles: Use of a Nonhydrolytic Sol-Gel Synthesis To Prepare HfO_2 and $\text{Hf}_x\text{Zr}_{1-x}\text{O}_2$ Nanocrystals. Chemistry of Materials, 2004, 16, 1336-1342. | 6.7 | 139 |
| 25 | 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 |
| 26 | On the transport of intensity technique for phase retrieval. Ultramicroscopy, 2004, 102, 37-49. | 1.9 | 137 |
| 27 | 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 |
| 28 | $\text{Pd}@\text{Cu}$ 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 |
| 29 | Gold-promoted structurally ordered intermetallic palladium cobalt nanoparticles for the oxygen reduction reaction. Nature Communications, 2014, 5, 5185. | 12.8 | 134 |
| 30 | Interface-induced nonswitchable domains in ferroelectric thin films. Nature Communications, 2014, 5, 4693. | 12.8 | 120 |
| 31 | Record Surface State Mobility and Quantum Hall Effect in Topological Insulator Thin Films via Interface Engineering. Nano Letters, 2015, 15, 8245-8249. | 9.1 | 119 |
| 32 | 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 |
| 33 | 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 |
| 34 | Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12862-12869. | 8.0 | 109 |
| 35 | Phonon localization in heat conduction. Science Advances, 2018, 4, eaat9460. | 10.3 | 108 |
| 36 | Anisotropic Seeded Growth of $\text{Cu}@\text{M}$ (M = Au, Pt, or Pd) Bimetallic Nanorods with Tunable Optical and Catalytic Properties. Journal of Physical Chemistry C, 2013, 117, 8924-8932. | 3.1 | 104 |

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|----|---|------|-----------|
| 37 | Low-Dimensional Conduction Mechanisms in Highly Conductive and Transparent Conjugated Polymers. <i>Advanced Materials</i> , 2015, 27, 4604-4610. | 21.0 | 103 |
| 38 | Large-Area Growth of Turbostratic Graphene on Ni(111) via Physical Vapor Deposition. <i>Scientific Reports</i> , 2016, 6, 19804. | 3.3 | 103 |
| 39 | Martensitic Phase Transformation of Isolated HfO ₂ , ZrO ₂ , and Hf _x Zr _{1-x} O ₂ (0 < x < 1) Nanocrystals. <i>Advanced Functional Materials</i> , 2005, 15, 1595-1602. | 14.9 | 102 |
| 40 | Femtosecond time-resolved MeV electron diffraction. <i>New Journal of Physics</i> , 2015, 17, 063004. | 2.9 | 96 |
| 41 | Structural Defects and the Origin of the Second Length Scale in SrTiO ₃ . <i>Physical Review Letters</i> , 1998, 80, 2370-2373. | 7.8 | 94 |
| 42 | Characterization of Palladium Nanoparticles by Using X-ray Reflectivity, EXAFS, and Electron Microscopy. <i>Langmuir</i> , 2006, 22, 807-816. | 3.5 | 93 |
| 43 | Reconfigurable perovskite nickelate electronics for artificial intelligence. <i>Science</i> , 2022, 375, 533-539. | 12.6 | 93 |
| 44 | Ferroelectric Switching Dynamics of Topological Vortex Domains in a Hexagonal Manganite. <i>Advanced Materials</i> , 2013, 25, 2415-2421. | 21.0 | 91 |
| 45 | Synthesis of cryptomelane type $\hat{\Gamma}_2$ -MnO ₂ (K _x Mn ₈ O ₁₆) cathode materials with tunable K ⁺ content: the role of tunnel cation concentration on electrochemistry. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16914-16928. | 10.3 | 91 |
| 46 | Polytypism, polymorphism, and superconductivity in TaSe ₂ Te _x . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1174-80. | 7.1 | 90 |
| 47 | Carrier dynamics and the role of surface defects: Designing a photocatalyst for gas-phase CO ₂ reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E8011-E8020. | 7.1 | 89 |
| 48 | Surface modified CF _x cathode material for ultrafast discharge and high energy density. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20896-20901. | 10.3 | 83 |
| 49 | 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 |
| 50 | Proximity-Driven Enhanced Magnetic Order at Ferromagnetic-Insulator/Magnetic-Topological-Insulator Interface. <i>Physical Review Letters</i> , 2015, 115, 087201. | 7.8 | 81 |
| 51 | Structural Defects of Silver Hollandite, Ag _x Mn ₈ O ₁₀ Nanorods: Dramatic Impact on Electrochemistry. <i>ACS Nano</i> , 2015, 9, 8430-8439. | 14.6 | 81 |
| 52 | 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 |
| 53 | Experimental Verification of the Van Vleck Nature of Long-Range Ferromagnetic Order in the Vanadium-Doped Three-Dimensional Topological Insulator $\langle \text{math display="inline">Sb_2\text{Te}_3 \rangle$. <i>Physical Review Letters</i> , 2015, 114, 146802. | 7.8 | 79 |
| 54 | Magnetotransport study of Dirac fermions in $\langle \text{math display="inline">YbMnBi_2 \rangle$. <i>Physical Review B</i> , 2016, 94, . | 7.8 | 79 |

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|----|--|------|-----------|
| 55 | Superconducting order from disorder in 2H-TaSe $2\hat{a}^{\wedge} \times S$ x. Npj Quantum Materials, 2017, 2, . | 5.2 | 73 |
| 56 | Insights into Ionic Transport and Structural Changes in Magnetite during Multiple Electron Transfer Reactions. Advanced Energy Materials, 2016, 6, 1502471. | 19.5 | 72 |
| 57 | Quantitative temporally and spatially resolved X-ray fluorescence microprobe characterization of the manganese dissolution-deposition mechanism in aqueous Zn/±-MnO ₂ batteries. Energy and Environmental Science, 2020, 13, 4322-4333. | 30.8 | 72 |
| 58 | Experimental confirmation of Zener-polaron-type charge and orbital ordering in Pr^{3+} $\text{A}_{2-x}\text{B}_x\text{O}_7$. Physical Review B, 2007, 76, . | 3.2 | 71 |
| 59 | Mixed-valence-driven heavy-fermion behavior and superconductivity in $\text{KNi}_2\text{Se}_2\text{O}_7$. Physical Review B, 2012, 86, . | 3.2 | 71 |
| 60 | Multiple electronic transitions and superconductivity in $\text{Pd}_x\text{Ni}_{1-x}\text{O}$. Physical Review B, 2010, 81, . | 3.2 | 70 |
| 61 | 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 |
| 62 | Low-temperature superlattice in monoclinic $\text{PbZr}_0.52\text{Ti}_0.48\text{O}_3$. Physical Review B, 2002, 66, . | 3.2 | 65 |
| 63 | Interrogation of bimetallic particle oxidation in three dimensions at the nanoscale. Nature Communications, 2016, 7, 13335. | 12.8 | 65 |
| 64 | A route for a strong increase of critical current in nanostrained iron-based superconductors. Nature Communications, 2016, 7, 13036. | 12.8 | 65 |
| 65 | Grain-boundary studies by the coincident-site lattice model and electron-energy-loss spectroscopy of the oxygen K edge 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, 11-28. | 0.6 | 64 |
| 66 | Direct electron imaging in electron microscopy with monolithic active pixel sensors. Ultramicroscopy, 2007, 107, 674-684. | 1.9 | 63 |
| 67 | Atomic Structure Evolution of Pt-Co Binary Catalysts: Single Metal Sites versus Intermetallic Nanocrystals. Advanced Materials, 2021, 33, e2106371. | 21.0 | 62 |
| 68 | Artificial two-dimensional polar metal at room temperature. Nature Communications, 2018, 9, 1547. | 12.8 | 61 |
| 69 | Coupling between magnetic order and charge transport in a two-dimensional magnetic semiconductor. Nature Materials, 2022, 21, 754-760. | 27.5 | 60 |
| 70 | Nanoscale disorder and local electronic properties of $\text{CaCu}_2\text{O}_{8-\delta}$. An integrated study of electron, neutron, and x-ray diffraction, x-ray absorption fine structure. Physical Review B, 2010, 81, . | 3.2 | 58 |
| 71 | Spontaneous Growth of ZnCO_3 Nanowires on ZnO Nanostructures in Normal Ambient Environment: Unstable ZnO Nanostructures. Chemistry of Materials, 2010, 22, 149-154. | 6.7 | 58 |
| 72 | Nonequilibrium electron and lattice dynamics of strongly correlated $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8-\delta}$ single crystals. Science Advances, 2018, 4, eaap7427. | 10.3 | 58 |

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|----|--|------|-----------|
| 73 | Unraveling the Dissolution-Mediated Reaction Mechanism of LiMnO_2 Cathodes for Aqueous Zn-Ion Batteries. <i>Small</i> , 2020, 16, e2005406. | 10.0 | 58 |
| 74 | Quantitative noninterferometric Lorentz microscopy. <i>Journal of Applied Physics</i> , 2001, 89, 7177-7179. | 2.5 | 57 |
| 75 | Multi-Stage Structural Transformations in Zero-Strain Lithium Titanate Unveiled by <i>in Situ</i> X-ray Absorption Fingerprints. <i>Journal of the American Chemical Society</i> , 2017, 139, 16591-16603. | 13.7 | 57 |
| 76 | Structural origin of misorientation-independent superconducting behavior at [001] twist boundaries in $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_{8+x}$. <i>Physical Review B</i> , 1998, 57, 8601-8608. | 3.2 | 56 |
| 77 | Nonperturbative Quantum Nature of the Dislocation-Phonon Interaction. <i>Nano Letters</i> , 2017, 17, 1587-1594. | 9.1 | 56 |
| 78 | Effective recycling of manganese oxide cathodes for lithium based batteries. <i>Green Chemistry</i> , 2016, 18, 3414-3421. | 9.0 | 55 |
| 79 | Gram-Scale-Synthesized Pd_2Co -Supported Pt Monolayer Electrocatalysts for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8950-8957. | 3.1 | 54 |
| 80 | Tetragonal-Orthorhombic Structural Modulation at Low Temperature in $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$. <i>Physical Review Letters</i> , 1994, 73, 3026-3029. | 7.8 | 53 |
| 81 | Colloidal Binary Supracrystals with Tunable Structural Lattices. <i>Journal of the American Chemical Society</i> , 2018, 140, 9095-9098. | 13.7 | 53 |
| 82 | Effect of Precursor Selection on the Photocatalytic Performance of Indium Oxide Nanomaterials for Gas-Phase CO_2 Reduction. <i>Chemistry of Materials</i> , 2016, 28, 4160-4168. | 6.7 | 52 |
| 83 | Visualization of lithium-ion transport and phase evolution within and between manganese oxide nanorods. <i>Nature Communications</i> , 2017, 8, 15400. | 12.8 | 52 |
| 84 | Lithiation Mechanism of Tunnel-Structured MnO_2 Electrode Investigated by In Situ Transmission Electron Microscopy. <i>Advanced Materials</i> , 2017, 29, 1703186. | 21.0 | 52 |
| 85 | Nucleation and growth of $\text{YBa}_2\text{Cu}_3\text{O}_{x-1}$ on SrTiO_3 and CeO_2 by a BaF_2 postdeposition reaction process. <i>Journal of Materials Research</i> , 2001, 16, 2869-2884. | 2.6 | 51 |
| 86 | Direct dynamic imaging of non-adiabatic spin torque effects. <i>Nature Communications</i> , 2012, 3, 1028. | 12.8 | 51 |
| 87 | Quantification of Honeycomb Number-Type Stacking Faults: Application to $\text{Na}_3\text{Ni}_2\text{BiO}_6$ Cathodes for Na-Ion Batteries. <i>Inorganic Chemistry</i> , 2016, 55, 8478-8492. | 4.0 | 51 |
| 88 | 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 |
| 89 | Localized concentration reversal of lithium during intercalation into nanoparticles. <i>Science Advances</i> , 2018, 4, eaao2608. | 10.3 | 50 |
| 90 | Electric pulse induced resistance change effect in manganites due to polaron localization at the metal-oxide interfacial region. <i>Physical Review B</i> , 2008, 77, . | 3.2 | 49 |

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|-----|--|------|-----------|
| 91 | Ultrafast terahertz field control of electronic and structural interactions in vanadium dioxide. <i>Physical Review B</i> , 2018, 98, . | 3.2 | 49 |
| 92 | Origin of Phonon Glass“Electron Crystal Behavior in Thermoelectric Layered Cobaltate. <i>Advanced Functional Materials</i> , 2013, 23, 5728-5736. | 14.9 | 47 |
| 93 | Unfolding of Vortices into Topological Stripes in a Multiferroic Material. <i>Physical Review Letters</i> , 2014, 112, 247601. | 7.8 | 47 |
| 94 | Thickness-dependent magnetic order in CrI ₃ single crystals. <i>Scientific Reports</i> , 2019, 9, 13599. | 3.3 | 47 |
| 95 | Magnetotransport Anomaly in Room-Temperature Ferrimagnetic NiCo ₂ O ₄ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1805260. | 21.0 | 47 |
| 96 | Sensitive Phonon-Based Probe for Structure Identification of 1T-MoTe ₂ . <i>Journal of the American Chemical Society</i> , 2017, 139, 8396-8399. | 13.7 | 46 |
| 97 | Solar hydrogen production using epitaxial SrTiO ₃ on a GaAs photovoltaic. <i>Energy and Environmental Science</i> , 2017, 10, 377-382. | 30.8 | 46 |
| 98 | Janus structured Pt-FeNC nanoparticles as a catalyst for the oxygen reduction reaction. <i>Chemical Communications</i> , 2017, 53, 1660-1663. | 4.1 | 46 |
| 99 | Electron-optical phase shift of magnetic nanoparticles I. Basic concepts. <i>Philosophical Magazine</i> , 2003, 83, 1045-1057. | 1.6 | 44 |
| 100 | Valence-electron distribution in MgB ₂ by accurate diffraction measurements and first-principles calculations. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 44 |
| 101 | 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 |
| 102 | Interface-induced multiferroism by design in complex oxide superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E5062-E5069. | 7.1 | 42 |
| 103 | Conduction at a Ferroelectric Interface. <i>Physical Review Applied</i> , 2014, 2, . | 3.8 | 41 |
| 104 | Band Structure Engineering and Thermoelectric Properties of Charge-Compensated Filled Skutterudites. <i>Scientific Reports</i> , 2015, 5, 14641. | 3.3 | 41 |
| 105 | Environmental TEM Study of Electron Beam Induced Electrochemistry of Pr _{0.64} Ca _{0.36} MnO ₃ Catalysts for Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5301-5310. | 3.1 | 41 |
| 106 | Surface determination through atomically resolved secondary-electron imaging. <i>Nature Communications</i> , 2015, 6, 7358. | 12.8 | 41 |
| 107 | Revisiting Conversion Reaction Mechanisms in Lithium Batteries: Lithiation-Driven Topotactic Transformation in Fe ₂ . <i>Journal of the American Chemical Society</i> , 2018, 140, 17915-17922. | 13.7 | 41 |
| 108 | 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 |

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|-----|--|------|-----------|
| 109 | Quantification of Mixed Bloch-Néel Topological Spin Textures Stabilized by the Dzyaloshinskii-Moriya Interaction in Co/Pd Multilayers. <i>Physical Review Letters</i> , 2019, 122, 237201. | 7.8 | 40 |
| 110 | Distinguishing between the bi-stripe and Wigner-crystal model: A crystallographic study of charge-ordered $\text{La}_{0.33}\text{Ca}_{0.67}\text{MnO}_3$. <i>Physical Review B</i> , 2000, 61, 11946-11955. | 3.2 | 39 |
| 111 | Silver-Containing MnO_2 Nanorods: Electrochemistry in Na-Based Battery Systems. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4333-4342. | 8.0 | 39 |
| 112 | Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018, 4, e1700682. | 10.3 | 39 |
| 113 | Optical manipulation of magnetic vortices visualized in situ by Lorentz electron microscopy. <i>Science Advances</i> , 2018, 4, eaat3077. | 10.3 | 39 |
| 114 | Size-dependent kinetics during non-equilibrium lithiation of nano-sized zinc ferrite. <i>Nature Communications</i> , 2019, 10, 93. | 12.8 | 39 |
| 115 | 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 |
| 116 | Direct Observation of Alternating Octahedral and Prismatic Sodium Layers in O_3 -Type Transition Metal Oxides. <i>Advanced Energy Materials</i> , 2020, 10, 2001151. | 19.5 | 39 |
| 117 | Controlled synthesis of hierarchical ZSM-5 for catalytic fast pyrolysis of cellulose to aromatics. <i>Journal of Materials Chemistry A</i> , 2018, 6, 21178-21185. | 10.3 | 38 |
| 118 | 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 |
| 119 | The future of electron microscopy. <i>Physics Today</i> , 2015, 68, 32-38. | 0.3 | 37 |
| 120 | Interface reconstruction with emerging charge ordering in hexagonal manganite. <i>Science Advances</i> , 2018, 4, eaar4298. | 10.3 | 37 |
| 121 | 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 |
| 122 | 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 |
| 123 | Synthesis of Molybdenum Oxide Nanoplatelets during Crystallization of the Precursor Gel from Its Hybrid Nanocomposites. <i>Chemistry of Materials</i> , 2007, 19, 979-981. | 6.7 | 36 |
| 124 | Revealing and Rationalizing the Rich Polytypism of Todorokite MnO_2 . <i>Journal of the American Chemical Society</i> , 2018, 140, 6961-6968. | 13.7 | 36 |
| 125 | Grain-boundary constraint and oxygen deficiency in $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$: Application of the coincidence site lattice model to a non-cubic system. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994, 70, 969-984. | 0.6 | 35 |
| 126 | Hollandites as a new class of multiferroics. <i>Scientific Reports</i> , 2014, 4, 6203. | 3.3 | 35 |

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|-----|--|------|-----------|
| 127 | Synthesis of Copper@Silica Core-Shell Nanostructures with Sharp and Stable Localized Surface Plasmon Resonance. Journal of Physical Chemistry C, 2017, 121, 5684-5692. | 3.1 | 35 |
| 128 | Interface-induced magnetic polar metal phase in complex oxides. Nature Communications, 2019, 10, 5248. | 12.8 | 35 |
| 129 | Characterization of JEOL 2100F Lorentz-TEM for low-magnification electron holography and magnetic imaging. Ultramicroscopy, 2008, 108, 625-634. | 1.9 | 34 |
| 130 | Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. Npj Quantum Materials, 2017, 2, . | 5.2 | 34 |
| 131 | Cooling Induced Surface Reconstruction during Synthesis of High-Ni Layered Oxides. Advanced Energy Materials, 2019, 9, 1901915. | 19.5 | 34 |
| 132 | Record High-Proximity-Induced Anomalous Hall Effect in (Bi _x Sb _{1-x}) ₂ Te ₃ Thin Film Grown on CrGeTe ₃ Substrate. Nano Letters, 2019, 19, 4567-4573. | 9.1 | 34 |
| 133 | Electrically controlled reversible and hysteretic magnetic domain evolution in nickel film/Pb(Mg _{1/3} Nb _{2/3})O ₃ 0.68-[PbTiO ₃]0.32 (011) heterostructure. Applied Physics Letters, 2013, 102, . | 3.3 | 33 |
| 134 | Tunnel Structured \pm -MnO ₂ with Different Tunnel Cations (H ⁺ , K ⁺) Tunneling Electrodeless Cell. Electrochemistry. Journal of the Electrochemical Society, 2017, 164, A1983-A1990. | 2.9 | 33 |
| 135 | Effects of 300 MeV Au ²⁴⁺ ion irradiation on superconductivity in YBa ₂ Cu ₃ O ₇ epitaxial films. Applied Physics Letters, 1992, 61, 985-987. | 3.3 | 32 |
| 136 | Misorientation angle distributions for large-angle grain boundaries in Bi ₂ Sr ₂ CaCu ₂ O ₈ and Bi ₂ Sr ₂ Ca ₂ Cu ₃ O ₁₀ composite tapes. Applied Physics Letters, 1994, 65, 1832-1834. | 3.3 | 32 |
| 137 | Dynamic separation of electron excitation and lattice heating during the photoinduced melting of the periodic lattice distortion in 2H-TaSe ₂ . Applied Physics Letters, 2013, 103, . | 3.3 | 32 |
| 138 | Picometer Accuracy in Measuring Lattice Displacements Across Planar Faults by Interferometry in Coherent Electron Diffraction. Physical Review Letters, 2000, 85, 5126-5129. | 7.8 | 31 |
| 139 | Electric field tuned crossover from classical to weakly localized quantum transport in electron doped SrTiO_3 . Physical Review B, 2010, 81, . | 3.2 | 31 |
| 140 | Dichotomy in ultrafast atomic dynamics as direct evidence of polaron formation in manganites. Npj Quantum Materials, 2016, 1, . | 5.2 | 31 |
| 141 | GHz laser-free time-resolved transmission electron microscopy: A stroboscopic high-duty-cycle method. Ultramicroscopy, 2016, 161, 130-136. | 1.9 | 31 |
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