

Ye Zhu

List of Publications by Citations

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

150
papers

8,103
citations

35
h-index

88
g-index

164
ext. papers

9,573
ext. citations

10.6
avg, IF

5.94
L-index

#	Paper	IF	Citations
150	Grains and grain boundaries in single-layer graphene atomic patchwork quilts. <i>Nature</i> , 2011 , 469, 389-92	50.4	1573
149	A fast deposition-crystallization procedure for highly efficient lead iodide perovskite thin-film solar cells. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9898-903	16.4	1104
148	A Fast Deposition-Crystallization Procedure for Highly Efficient Lead Iodide Perovskite Thin-Film Solar Cells. <i>Angewandte Chemie</i> , 2014 , 126, 10056-10061	3.6	630
147	Gas-assisted preparation of lead iodide perovskite films consisting of a monolayer of single crystalline grains for high efficiency planar solar cells. <i>Nano Energy</i> , 2014 , 10, 10-18	17.1	461
146	Crossover from incoherent to coherent phonon scattering in epitaxial oxide superlattices. <i>Nature Materials</i> , 2014 , 13, 168-72	27	327
145	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 806-810	16.4	245
144	LaAlO ₃ stoichiometry is key to electron liquid formation at LaAlO ₃ /SrTiO ₃ interfaces. <i>Nature Communications</i> , 2013 , 4, 2351	17.4	177
143	Exploiting dimensionality and defect mitigation to create tunable microwave dielectrics. <i>Nature</i> , 2013 , 502, 532-6	50.4	170
142	Direct observation of intrinsic twin domains in tetragonal CH ₃ NH ₃ PbI ₃ . <i>Nature Communications</i> , 2017 , 8, 14547	17.4	152
141	NaMV(PO) (M = Mn, Fe, Ni) Structure and Properties for Sodium Extraction. <i>Nano Letters</i> , 2016 , 16, 7836-7841	17.4	146
140	Phase evolution for conversion reaction electrodes in lithium-ion batteries. <i>Nature Communications</i> , 2014 , 5, 3358	17.4	146
139	Room temperature in-plane ferroelectricity in van der Waals InSe. <i>Science Advances</i> , 2018 , 4, eaar7720	14.3	135
138	Evaluation of connectivity, flux pinning, and upper critical field contributions to the critical current density of bulk pure and SiC-alloyed MgB ₂ . <i>Applied Physics Letters</i> , 2006 , 89, 132508	3.4	129
137	Nanostructures of solid electrolyte interphases and their consequences for micro-sized Sn anodes in sodium ion batteries. <i>Energy and Environmental Science</i> , 2019 , 12, 1550-1557	35.4	103
136	Photocatalytic synthesis of dihydrobenzofurans by oxidative [3+2] cycloaddition of phenols. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 11056-9	16.4	91
135	Structural and Chemical Changes to CH ₃ NH ₃ PbI ₃ Induced by Electron and Gallium Ion Beams. <i>Advanced Materials</i> , 2018 , 30, e1800629	24	87
134	Atomically precise interfaces from non-stoichiometric deposition. <i>Nature Communications</i> , 2014 , 5, 4530	17.4	86

133	Fast flexible electronics with strained silicon nanomembranes. <i>Scientific Reports</i> , 2013 , 3, 1291	4.9	86
132	Mercury Telluride Quantum Dot Based Phototransistor Enabling High-Sensitivity Room-Temperature Photodetection at 2000 nm. <i>ACS Nano</i> , 2017 , 11, 5614-5622	16.7	84
131	Boosting Oxygen Reduction Catalysis with N-doped Carbon Coated CoS Microtubes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25415-25421	9.5	75
130	Polymer lithium-garnet interphase for an all-solid-state rechargeable battery. <i>Nano Energy</i> , 2018 , 53, 926-931	17.1	69
129	Highly Air-Stable Tin-Based Perovskite Solar Cells through Grain-Surface Protection by Gallic Acid. <i>ACS Energy Letters</i> , 2020 , 5, 1741-1749	20.1	68
128	Nanoscale grains, high irreversibility field and large critical current density as a function of high-energy ball milling time in C-doped magnesium diboride. <i>Superconductor Science and Technology</i> , 2008 , 21, 035009	3.1	66
127	Water-resistant perovskite nanodots enable robust two-photon lasing in aqueous environment. <i>Nature Communications</i> , 2020 , 11, 1192	17.4	65
126	Restricting Growth of NiFe Nanoparticles on Heteroatom-Doped Carbon Nanotube/Graphene Nanosheets as Air-Electrode Electrocatalyst for Zn-Air Battery. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38093-38100	9.5	55
125	Sea urchin-like NiBe sulfide architectures as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12350-12357	13	52
124	Phosphorus Incorporation into Co S Nanocages for Highly Efficient Oxygen Evolution Catalysis. <i>Small</i> , 2019 , 15, e1904507	11	51
123	Fabrication and Properties of a Free-Standing Two-Dimensional Titania. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15414-15419	16.4	50
122	2D WC/WO ₃ Heterogeneous Hybrid for Photocatalytic Decomposition of Organic Compounds with Vis-NIR Light. <i>Advanced Functional Materials</i> , 2018 , 28, 1705357	15.6	47
121	The critical role of composition-dependent intragrain planar defects in the performance of MA _{1-x} FaxPbI ₃ perovskite solar cells. <i>Nature Energy</i> , 2021 , 6, 624-632	62.3	47
120	Interface Engineering of MoS ₂ for Electrocatalytic Performance Optimization for Hydrogen Generation via Urea Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16577-16584	8.3	46
119	Effect of reduced dimensionality on the optical band gap of SrTiO ₃ . <i>Applied Physics Letters</i> , 2013 , 102, 122901	3.4	45
118	Coordination effect of network NiO nanosheet and a carbon layer on the cathode side in constructing a high-performance lithium-sulfur battery. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 6503-6509	13.9	43
117	Direct synthesis of L10-FePt nanoparticles from single-source bimetallic complex and their electrocatalytic applications in oxygen reduction and hydrogen evolution reactions. <i>Nano Research</i> , 2019 , 12, 2954-2959	10	37
116	Understanding the route to high critical current density in mechanically alloyed Mg(B _{1-x} C _x) ₂ . <i>Superconductor Science and Technology</i> , 2007 , 20, 650-657	3.1	37

115	Microstructures of SiC nanoparticle-doped MgB ₂ tapes. <i>Journal of Applied Physics</i> , 2007 , 102, 013913	2.5	35
114	Controllable construction of flower-like FeS/Fe ₂ O ₃ composite for lithium storage. <i>Journal of Power Sources</i> , 2018 , 392, 193-199	8.9	33
113	High-performance tin-lead mixed perovskite solar cells with vertical compositional gradient. <i>Advanced Materials</i> , 2021 , e2107729	24	33
112	Earth-abundant transition metal oxides with extraordinary reversible oxygen exchange capacity for efficient thermochemical synthesis of solar fuels. <i>Nano Energy</i> , 2018 , 50, 347-358	17.1	33
111	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni Mo N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18036-18041	16.4	32
110	Low-Power Complementary Inverter with Negative Capacitance 2D Semiconductor Transistors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003859	15.6	31
109	Tuning the electrocatalytic activity of Pt by structurally ordered PdFe/C for the hydrogen oxidation reaction in alkaline media. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11346-11352	13	31
108	Plasmonic Nanolenses: Electrostatic Self-Assembly of Hierarchical Nanoparticle Trimers and Their Response to Optical and Electron Beam Stimuli. <i>ACS Nano</i> , 2017 , 11, 1604-1612	16.7	30
107	Probing the in-Plane Near-Field Enhancement Limit in a Plasmonic Particle-on-Film Nanocavity with Surface-Enhanced Raman Spectroscopy of Graphene. <i>ACS Nano</i> , 2019 , 13, 7644-7654	16.7	30
106	Graded bulk-heterojunction enables 17% binary organic solar cells via nonhalogenated open air coating. <i>Nature Communications</i> , 2021 , 12, 4815	17.4	28
105	Preserved Layered Structure Enables Stable Cyclic Performance of MoS ₂ upon Potassium Insertion. <i>Chemistry of Materials</i> , 2019 , 31, 8801-8809	9.6	27
104	Thermal Redistribution of Exciton Population in Monolayer Transition Metal Dichalcogenides Probed with Plasmon-Exciton Coupling Spectroscopy. <i>ACS Photonics</i> , 2019 , 6, 411-421	6.3	25
103	Glucose-derived carbon sphere supported CoP as efficient and stable electrocatalysts for hydrogen evolution reaction. <i>Journal of Energy Chemistry</i> , 2017 , 26, 1147-1152	12	24
102	Atomic-Scale Compositional Mapping and 3-Dimensional Electron Microscopy of Dealloyed PtCo ₃ Catalyst Nanoparticles with Spongy Multi-Core/Shell Structures. <i>Journal of the Electrochemical Society</i> , 2012 , 159, F554-F559	3.9	24
101	Gradient 2D/3D Perovskite Films Prepared by Hot-Casting for Sensitive Photodetectors. <i>Advanced Science</i> , 2020 , 7, 2000776	13.6	23
100	Photocatalytic Synthesis of Dihydrobenzofurans by Oxidative [3+2] Cycloaddition of Phenols. <i>Angewandte Chemie</i> , 2014 , 126, 11236-11239	3.6	23
99	Chemically specific termination control of oxide interfaces via layer-by-layer mean inner potential engineering. <i>Nature Communications</i> , 2018 , 9, 2965	17.4	22
98	High-Jc MgB ₂ Josephson junctions with operating temperature up to 40 K. <i>Applied Physics Letters</i> , 2010 , 96, 042506	3.4	22

97	Anisotropic Signal Processing with Trigonal Selenium Nanosheet Synaptic Transistors. <i>ACS Nano</i> , 2020 , 14, 10018-10026	16.7	22
96	Insight into the hydrogen oxidation electrocatalytic performance enhancement on Ni via oxophilic regulation of MoO ₂ . <i>Journal of Energy Chemistry</i> , 2021 , 54, 202-207	12	22
95	Lattice Expansion in Optimally Doped Manganese Oxide: An Effective Structural Parameter for Enhanced Thermochemical Water Splitting. <i>ACS Catalysis</i> , 2019 , 9, 9880-9890	13.1	21
94	Phase conversion of Pt ₃ Ni ₂ /C from disordered alloy to ordered intermetallic with strained lattice for oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018 , 283, 1253-1260	6.7	21
93	Hybrid Aqueous/Organic Electrolytes Enable the High-Performance Zn-Ion Batteries. <i>Research</i> , 2019 , 2019, 2635310	7.8	21
92	Two-Dimensional Antiferroelectricity in Nanostripe-Ordered In ₂ Se ₃ . <i>Physical Review Letters</i> , 2020 , 125, 047601	7.4	21
91	Direct mapping of Li-enabled octahedral tilt ordering and associated strain in nanostructured perovskites. <i>Nature Materials</i> , 2015 , 14, 1142-9	27	20
90	Evidence of ferromagnetism in Zn _{1-x} MxO (M = Ni,Cu) nanocrystals for spintronics. <i>Nanotechnology</i> , 2007 , 18, 315606	3.4	20
89	Room Temperature Synthesis of HgTe Quantum Dots in an Aprotic Solvent Realizing High Photoluminescence Quantum Yields in the Infrared. <i>Chemistry of Materials</i> , 2017 , 29, 7859-7867	9.6	19
88	Bulk-Heterojunction with Long-Range Ordering: C Single-Crystal with Incorporated Conjugated Polymer Networks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 1630-1635	16.4	19
87	Nanoscale disorder in high critical field, carbon-doped MgB ₂ hybrid physical-chemical vapor deposition thin films. <i>Applied Physics Letters</i> , 2007 , 91, 082513	3.4	18
86	Non-Periodic Epsilon-Near-Zero Metamaterials at Visible Wavelengths for Efficient Non-Resonant Optical Sensing. <i>Nano Letters</i> , 2020 , 20, 3970-3977	11.5	17
85	High-field properties of carbon-doped MgB ₂ thin films by hybrid physical-chemical vapor deposition using different carbon sources. <i>Superconductor Science and Technology</i> , 2011 , 24, 125014	3.1	17
84	Well-ordered layered LiNi _{0.8} Co _{0.1} Mn _{0.1} O ₂ submicron sphere with fast electrochemical kinetics for cathodic lithium storage. <i>Journal of Energy Chemistry</i> , 2020 , 47, 188-195	12	17
83	Ferrocene-based hyperbranched polymers: a synthetic strategy for shape control and applications as electroactive materials and precursor-derived magnetic ceramics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10774-10780	7.1	16
82	Compositional analysis of GaAs/AlGaAs heterostructures using quantitative scanning transmission electron microscopy. <i>Applied Physics Letters</i> , 2013 , 103, 232111	3.4	16
81	Controllable defect driven symmetry change and domain structure evolution in BiFeO ₃ with enhanced tetragonality. <i>Nanoscale</i> , 2019 , 11, 8110-8118	7.7	15
80	Infrared Nanoimaging of Surface Plasmons in Type-II Dirac Semimetal PtTe Nanoribbons. <i>ACS Nano</i> , 2020 , 14, 6276-6284	16.7	15

79	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019 , 131, 816-820	3.6	15
78	The Ab Initio Calculations on the Areal Specific Resistance of Li-Metal/Li ₇ La ₃ Zr ₂ O ₁₂ Interphase. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1900028	3.5	14
77	Multifunctional nanostructures of AuBi ₂ O ₃ fractals for CO ₂ reduction and optical sensing. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11233-11245	13	14
76	Two-dimensional ferroelasticity in van der Waals MnSe. <i>Nature Communications</i> , 2021 , 12, 3665	17.4	14
75	Topologically Enclosed Aluminum Voids as Plasmonic Nanostructures. <i>ACS Nano</i> , 2017 , 11, 11383-11392	16.7	13
74	Interstitial copper-doped edge contact for n-type carrier transport in black phosphorus. <i>Information Materials</i> , 2019 , 1, 242	23.1	13
73	Towards artifact-free atomic-resolution elemental mapping with electron energy-loss spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 141908	3.4	13
72	Determining on-axis crystal thickness with quantitative position-averaged incoherent bright-field signal in an aberration-corrected STEM. <i>Microscopy and Microanalysis</i> , 2012 , 18, 720-7	0.5	13
71	Flux Pinning Optimization of MgB ₂ Bulk Samples Prepared Using High-Energy Ball Milling and Addition of TaB ₂ . <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 2797-2801	1.8	13
70	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6561-6566	16.4	13
69	Nanoscale disorder in pure and doped MgB ₂ thin films. <i>Superconductor Science and Technology</i> , 2010 , 23, 095008	3.1	12
68	Strain engineering of epitaxial oxide heterostructures beyond substrate limitations. <i>Matter</i> , 2021 , 4, 1323-1334	12.7	12
67	Synergistic regulation of nickel doping/hierarchical structure in cobalt sulfide for high performance zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120539	21.8	12
66	MgO platelets and high critical field in MgB ₂ thin films doped with carbon from methane. <i>Superconductor Science and Technology</i> , 2009 , 22, 125001	3.1	10
65	Room-temperature multiple ligands-tailored SnO quantum dots endow in situ dual-interface binding for upscaling efficient perovskite photovoltaics with high V. <i>Light: Science and Applications</i> , 2021 , 10, 239	16.7	10
64	Corrosion-assisted large-scale production of hierarchical iron rusts/Ni(OH) ₂ nanosheet-on-microsphere arrays for efficient electrocatalysis. <i>Electrochimica Acta</i> , 2020 , 353, 136478	6.7	9
63	Carbon/Polymer Bilayer-Coated Si-SiO ₂ Electrodes with Enhanced Electrical Conductivity and Structural Stability. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 19023-19032	9.5	9
62	Quantitative position-averaged K-, L-, and M-shell core-loss scattering in STEM. <i>Microscopy and Microanalysis</i> , 2014 , 20, 1070-7	0.5	9

61	Single atomic layer detection of Ca and defect characterization of Bi-2212 with EELS in HA-ADF STEM. <i>Ultramicroscopy</i> , 2006 , 106, 1076-81	3.1	9
60	Imidazole Type Antifungal Drugs Are Effective Colistin Adjuvants That Resensitize Colistin-Resistant Enterobacteriaceae. <i>Advanced Therapeutics</i> , 2020 , 3, 2000084	4.9	8
59	Electron Energy-Loss Spectroscopy of Spatial Nonlocality and Quantum Tunneling Effects in the Bright and Dark Plasmon Modes of Gold Nanosphere Dimers. <i>Advanced Quantum Technologies</i> , 2018 , 1, 1800016	4.3	8
58	$\text{MgB}_2/\text{MgO}/\text{MgB}_2$ Josephson Junctions for High-Speed Circuits. <i>IEEE Transactions on Applied Superconductivity</i> , 2011 , 21, 115-118	1.8	8
57	Uncovering the out-of-plane nanomorphology of organic photovoltaic bulk heterojunction by GTSAXS. <i>Nature Communications</i> , 2021 , 12, 6226	17.4	8
56	Thermodynamically Metal Atom Trapping in Van der Waals Layers Enabling Multifunctional 3D Carbon Network. <i>Advanced Functional Materials</i> , 2020 , 30, 2002626	15.6	8
55	Dual-phase metal nitrides as highly efficient co-catalysts for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2021 , 416, 129116	14.7	8
54	Steep Slope p-type 2D WSe ₂ Field-Effect Transistors with Van Der Waals Contact and Negative Capacitance 2018 ,		8
53	The transient reduction of NO with CO and naphthalene in the presence of oxygen using a core-shell SmCeO ₂ @TiO ₂ -supported copper catalyst. <i>Catalysis Science and Technology</i> , 2019 , 9, 3408-3415	5.5	7
52	Revealing Atomic Structure and Oxidation States of Dopants in Charge-Ordered Nanoparticles for Migration-Promoted Oxygen-Exchange Capacity. <i>Chemistry of Materials</i> , 2019 , 31, 5769-5777	9.6	7
51	Oxygen Coordination on Fe-N-C to Boost Oxygen Reduction Catalysis. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 517-524	6.4	7
50	Selective and Continuous Electrosynthesis of Hydrogen Peroxide on Nitrogen-doped Carbon Supported Nickel. <i>Cell Reports Physical Science</i> , 2020 , 1, 100255	6.1	7
49	Exploring the structure evolution of MoS upon Li/Na/K ion insertion and the origin of the unusual stability in potassium ion batteries. <i>Nanoscale Horizons</i> , 2020 , 5, 1618-1627	10.8	7
48	Spontaneous formation of the conformal carbon nanolayer coated Si nanostructures as the stable anode for lithium-ion batteries from silica nanomaterials. <i>Journal of Power Sources</i> , 2021 , 496, 229833	8.9	7
47	Nanostructure-Mediated Phase Evolution in Lithiation/Delithiation of CoO. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 28171-28180	9.5	7
46	Supporting nickel on vanadium nitride for comparable hydrogen evolution performance to platinum in alkaline solution. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19669-19674	13	7
45	Direct determination of the effect of strain on domain morphology in ferroelectric superlattices with scanning probe microscopy. <i>Journal of Applied Physics</i> , 2012 , 112, 052011	2.5	6
44	Nitrogen-induced interfacial electronic structure of NiS ₂ /CoS ₂ with optimized water and hydrogen binding abilities for efficient alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 719-725	13	6

43	Anomalous variable-temperature photoluminescence of CsPbBr perovskite quantum dots embedded into an organic solid. <i>Nanoscale</i> , 2019 , 11, 20942-20948	7.7	6
42	Impact of Cation Stoichiometry on the Crystalline Structure and Superconductivity in Nickelates. <i>Frontiers in Physics</i> , 2021 , 9,	3.9	6
41	A fast and general approach to produce a carbon coated Janus metal/oxide hybrid for catalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7606-7616	13	6
40	Fast imaging with inelastically scattered electrons by off-axis chromatic confocal electron microscopy. <i>Physical Review Letters</i> , 2014 , 112, 166101	7.4	5
39	Effects of strain on defect structure in II-VI green color converters. <i>Journal of Applied Physics</i> , 2010 , 108, 123104	2.5	5
38	Solution process formation of high performance, stable nanostructured transparent metal electrodes via displacement-diffusion-etch process. <i>Npj Flexible Electronics</i> , 2022 , 6,	10.7	5
37	Ni-Fe bimetallic core-shell structured catalysts supported on biomass longan aril derived nitrogen doped carbon for efficient oxygen reduction and evolution performance. <i>Materials Today Communications</i> , 2020 , 24, 101127	2.5	5
36	Modulated FeCo nanoparticle in situ growth on the carbon matrix for high-performance oxygen catalysts. <i>Materials Today Energy</i> , 2021 , 19, 100610	7	5
35	Blind lattice-parameter determination of cubic and tetragonal phases with high accuracy using a single EBSD pattern. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018 , 74, 630-639	1.7	5
34	Critical roles of microstructure and interphase on the stability of micro-sized germanium anode. <i>Journal of Power Sources</i> , 2021 , 481, 228916	8.9	4
33	Surface Functionalized Sensors for Humidity-Independent Gas Detection. <i>Angewandte Chemie</i> , 2021 , 133, 6635-6640	3.6	4
32	Enhanced Anomalous Hall Effect in Pt/CoO Heterostructures by Ferrimagnetic Insulator Gating. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 1099-1104	4	3
31	A Surface-Oxide-Rich Activation Layer (SOAL) on Ni ₂ Mo ₃ N for a Rapid and Durable Oxygen Evolution Reaction. <i>Angewandte Chemie</i> , 2020 , 132, 18192-18197	3.6	3
30	Energy-loss- and thickness-dependent contrast in atomic-scale electron energy-loss spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	3
29	Increased in-field critical current density in neutron-irradiated MgB ₂ films. <i>Superconductor Science and Technology</i> , 2009 , 22, 015023	3.1	3
28	Critical Roles of Mechanical Properties of Solid Electrolyte Interphase for Potassium Metal Anodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2112399	15.6	3
27	Transferred metal gate to 2D semiconductors for sub-1 V operation and near ideal subthreshold slope. <i>Science Advances</i> , 2021 , 7, eabf8744	14.3	3
26	Edge-Orientation Dependent Nanoimaging of Mid-Infrared Waveguide Modes in High-Index PtSe ₂ . <i>Advanced Optical Materials</i> , 2021 , 9, 2100294	8.1	3

25	Amorphous silicon from low-temperature reduction of silica in the molten salts and its lithium-storage performance. <i>Chinese Chemical Letters</i> , 2021 , 32, 598-603	8.1	3
24	Accurate determination of low-symmetry Bravais unit cells by EBSD. <i>Ultramicroscopy</i> , 2018 , 195, 136-146	9.1	3
23	Direct Observation of Oxygen Evolution and Surface Restructuring on MnO Nanocatalysts Using and Transmission Electron Microscopy. <i>Nano Letters</i> , 2021 , 21, 7012-7020	11.5	3
22	Impacts of boron doping on the atomic structure, stability, and photocatalytic activity of Cu ₃ P nanocrystals. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120515	21.8	3
21	Hollow Porous Carbon-Confined Atomically Ordered PtCo ₃ Intermetallics for an Efficient Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 5380-5387	13.1	3
20	Orientation relationships between nanotwins inside type II microtwins in Ni-Mn-Ga alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153479	5.7	2
19	Tellurium-assisted and space-confined growth of graphene single crystals. <i>Carbon</i> , 2021 , 173, 54-60	10.4	2
18	Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7812-7821	9.5	2
17	Boosting Oxygen Reduction for High-Efficiency H ₂ O Electrolysis on Oxygen-Coordinated Co ₂ N ₂ C Catalysts. <i>Small</i> , 2022 , e2200730	11	2
16	Electronic and transport properties in Ruddlesden-Popper neodymium nickelates Nd _{n+1} Ni _n O _{3n+1} (n=1B). <i>Physical Review B</i> , 2021 , 104,	3.3	1
15	Strain Engineering of Epitaxial Oxide Heterostructures Beyond Substrate Limitations. <i>SSRN Electronic Journal</i> ,	1	1
14	Constructing defect-rich Ni ₉ S ₈ /Fe ₅ Ni ₄ S ₈ heterostructure nanoparticles for efficient oxygen evolution reaction and overall water splitting. <i>JPhys Materials</i> , 2021 , 4, 034006	4.2	1
13	Epitaxial growth and transport properties of compressively-strained Ba ₂ IrO ₄ films*. <i>Chinese Physics B</i> , 2021 , 30, 087401	1.2	1
12	Three dimensional confocal imaging using coherent elastically scattered electrons 2016 , 19-20		0
11	Three-dimensional Confocal Imaging Using Coherent Elastically Scattered Electrons. <i>Microscopy and Microanalysis</i> , 2017 , 23, 450-451	0.5	0
10	Off-axis chromatic scanning confocal electron microscopy for inelastic imaging with atomic resolution. <i>Microscopy and Microanalysis</i> , 2015 , 21, 2175-2176	0.5	0
9	Alloy-buffer-controlled van der Waals epitaxial growth of aligned tellurene. <i>Nano Research</i> , 1	10	0
8	Stabilization of Ultra-Small Stannic Oxide Nanoparticles in Optimizing the Lithium Storage Kinetics. <i>Energy & Fuels</i> , 2022 , 36, 4034-4041	4.1	0

- 7 Partially ordered hierarchical substructure of as-cast β phase in Ni-Mn-Ga alloys. *Materials and Design*, **2022**, 110780 8.1 0
- 6 Localized surface plasmon resonance mapping on aluminium voids with three-dimensional nanostructures **2016**, 791-792
- 5 Direct mapping of Li-enabled octahedral tilt ordering and associated strain in nanostructured perovskites **2016**, 722-723
- 4 Resolving Nanostructured Materials Down to the Single-atom Limit. *Microscopy and Microanalysis*, **2020**, 26, 1756-1758 0.5
- 3 Effects of Mg content on dark-line defects in III-V green converters. *Scripta Materialia*, **2011**, 64, 568-571 5.6
- 2 The Structure of Epitaxially-Stabilized BiVO₄ Optimized for Photocatalysis. *Microscopy and Microanalysis*, **2012**, 18, 1368-1369 0.5
- 1 Quantification and Sensible Correction for Energy-Loss- and Thickness-Dependent Contrast Complications in Atomic-Scale Electron Energy-Loss Spectroscopy. *Microscopy and Microanalysis*, **2016**, 22, 886-887 0.5