

Xiao-Qing Pan

List of Publications by Year in descending order

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548
papers

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4103

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564
docs citations

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times ranked

37081
citing authors

#	ARTICLE	IF	CITATIONS
1	Giant Thermal Transport Tuning at a Metal/Ferroelectric Interface. <i>Advanced Materials</i> , 2022, 34, e2105778.	11.1	13
2	Probing molecular vibrations by monochromated electron microscopy. <i>Trends in Chemistry</i> , 2022, 4, 76-90.	4.4	7
3	A MnO ₂ enhanced atomically dispersed iron–nitrogen–carbon catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2022, 10, 5981-5989.	5.2	18
4	Visualization and validation of twin nucleation and early-stage growth in magnesium. <i>Nature Communications</i> , 2022, 13, 20.	5.8	23
5	Catalysts by pyrolysis: Direct observation of transformations during re-pyrolysis of transition metal-nitrogen-carbon materials leading to state-of-the-art platinum group metal-free electrocatalyst. <i>Materials Today</i> , 2022, 53, 58-70.	8.3	23
6	Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO ₄ Films. <i>Small</i> , 2022, 18, e2107540.	5.2	8
7	Electronic reconstruction at the polar (111)-oriented oxide interface. <i>APL Materials</i> , 2022, 10, .	2.2	2
8	Stability-limiting heterointerfaces of perovskite photovoltaics. <i>Nature</i> , 2022, 605, 268-273.	13.7	229
9	High-density switchable skyrmion-like polar nanodomains integrated on silicon. <i>Nature</i> , 2022, 603, 63-67.	13.7	79
10	Ferroelectricity in a semiconducting all-inorganic halide perovskite. <i>Science Advances</i> , 2022, 8, eabj5881.	4.7	37
11	Direct observation of elemental fluctuation and oxygen octahedral distortion-dependent charge distribution in high entropy oxides. <i>Nature Communications</i> , 2022, 13, 2358.	5.8	35
12	Highly Durable and Selective Fe- and Mo-Based Atomically Dispersed Electrocatalysts for Nitrate Reduction to Ammonia via Distinct and Synergized NO ₂ ⁺ Pathways. <i>ACS Catalysis</i> , 2022, 12, 6651-6662.	5.5	58
13	Manipulating Coordination Structures of Mixed-Valence Copper Single Atoms on 1T-MoS ₂ for Efficient Hydrogen Evolution. <i>ACS Catalysis</i> , 2022, 12, 7687-7695.	5.5	26
14	Nanoscale imaging of phonon dynamics by electron microscopy. <i>Nature</i> , 2022, 606, 292-297.	13.7	34
15	Interface-Guided Formation of 2D Ultrathin MnO ₂ Nanosheets with Abundant Oxygen Defects for High Performance Supercapacitors. <i>ACS Applied Energy Materials</i> , 2022, 5, 6962-6969.	2.5	3
16	Robust palladium hydride catalyst for electrocatalytic formate formation with high CO tolerance. <i>Applied Catalysis B: Environmental</i> , 2022, 316, 121659.	10.8	11
17	Chiral molecular intercalation superlattices. <i>Nature</i> , 2022, 606, 902-908.	13.7	67
18	Strong electrostatic adsorption approach to the synthesis of sub-three nanometer intermetallic platinum–cobalt oxygen reduction catalysts. <i>Nano Energy</i> , 2021, 79, 105465.	8.2	59

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19	Fe-N-C Electrocatalysts™ Durability: Effects of Single Atoms™ Mobility and Clustering. ACS Catalysis, 2021, 11, 484-494.	5.5	53
20	Solar-assisted co-electrolysis of glycerol and water for concurrent production of formic acid and hydrogen. Journal of Materials Chemistry A, 2021, 9, 19975-19983.	5.2	18
21	Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets. Small Methods, 2021, 5, 2100035.	4.6	13
22	Directly Probing the Local Coordination, Charge State, and Stability of Single Atom Catalysts by Advanced Electron Microscopy: A Review. Small, 2021, 17, e2006482.	5.2	49
23	Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. ACS Applied Materials & Interfaces, 2021, 13, 7812-7821.	4.0	6
24	Effective Electrochemical Modulation of SERS Intensity Assisted by Core-Shell Nanoparticles. Analytical Chemistry, 2021, 93, 4441-4448.	3.2	17
25	High-order superlattices by rolling up van der Waals heterostructures. Nature, 2021, 591, 385-390.	13.7	163
26	Activating a Two-Dimensional PtSe ₂ Basal Plane for the Hydrogen Evolution Reaction through the Simultaneous Generation of Atomic Vacancies and Pt Clusters. Nano Letters, 2021, 21, 3857-3863.	4.5	40
27	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Zn-Air Batteries. Nano Letters, 2021, 21, 4508-4515.	4.5	89
28	Machine Learning: Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets (Small Methods 5/2021). Small Methods, 2021, 5, 2170020.	4.6	2
29	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. Nature Communications, 2021, 12, 3215.	5.8	18
30	In Situ Observations of the Dynamics of Pd@Pt Core-Shell Nanoparticles in Electrolyte. Microscopy and Microanalysis, 2021, 27, 234-236.	0.2	2
31	Revealing Abnormal Phonon Polaritons Confined at the Edge of Curved Two-Dimensional Boron Nitride. Microscopy and Microanalysis, 2021, 27, 130-132.	0.2	0
32	Phonon Reflections from Nanostructured Interfaces Imaged by Momentum-Averaged and Resolved Vibrational EELS. Microscopy and Microanalysis, 2021, 27, 1204-1206.	0.2	1
33	Disconnection-mediated twin junction migration mechanism in FCC metals. Microscopy and Microanalysis, 2021, 27, 3100-3102.	0.2	0
34	Investigating the Degradation of Nb ₂ O ₅ Thin Films Across 10,000 Lithiation/Delithiation Cycles. ACS Applied Energy Materials, 2021, 4, 6542-6552.	2.5	11
35	Synthesis of Heteroatom Rh-ReOx Atomically Dispersed Species on Al ₂ O ₃ and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. Microscopy and Microanalysis, 2021, 27, 1570-1571.	0.2	0
36	Controllable Growth of Copper on TiO ₂ Nanoparticles Through Coupled Effects of Solution Viscosity and Photoreduction Rate. Microscopy and Microanalysis, 2021, 27, 2346-2348.	0.2	0

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37	Probing phonon propagation in materials by angle-resolved and angle-averaged vibrational EELS. <i>Microscopy and Microanalysis</i> , 2021, 27, 118-120.	0.2	0
38	High-Throughput Intelligent Analysis of High and Low-Loss EELS. <i>Microscopy and Microanalysis</i> , 2021, 27, 626-628.	0.2	0
39	Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. <i>Microscopy and Microanalysis</i> , 2021, 27, 712-713.	0.2	4
40	Observation of a charged incoherent BiFeO ₃ /SrTiO ₃ interface. <i>Microscopy and Microanalysis</i> , 2021, 27, 1454-1455.	0.2	0
41	Probing the Dynamics of Phase Transformation in Nanostructures by STEM Imaging and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2021, 27, 1964-1966.	0.2	0
42	Space- and Angle-Resolved Vibrational Spectroscopy to Probe the Local Phonon Modes at Planar Defects. <i>Microscopy and Microanalysis</i> , 2021, 27, 1190-1192.	0.2	0
43	Atomic-resolution study of charge transfer effects at the $\text{LaTiO}_3/\text{LaTiO}_3/\text{LaTiO}_3$ interface. <i>Physical Review B</i> , 2021, 104.		
44	Exsolution of Embedded Ni-Fe-Co Nanoparticles: Implications for Dry Reforming of Methane. <i>ACS Applied Nano Materials</i> , 2021, 4, 8626-8636.	2.4	15
45	Emergent properties at oxide interfaces controlled by ferroelectric polarization. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	5
46	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021, 7, eabi6699.	4.7	13
47	Laser-irradiated Holey Graphene-Supported Single-Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. <i>Advanced Energy Materials</i> , 2021, 11, 2101619.	10.2	43
48	Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. <i>Nano Energy</i> , 2021, 90, 106488.	8.2	55
49	Single-defect phonons imaged by electron microscopy. <i>Nature</i> , 2021, 589, 65-69.	13.7	108
50	Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. <i>Npj Quantum Materials</i> , 2021, 6, .	1.8	6
51	Emergence of near-boundary segregation zones in face-centered cubic multiprincipal element alloys. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
52	In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784.	5.8	16
53	Experimental observation of localized interfacial phonon modes. <i>Nature Communications</i> , 2021, 12, 6901.	5.8	46
54	Thickness and defocus dependence of inter-atomic electric fields measured by scanning diffraction. <i>Ultramicroscopy</i> , 2020, 208, 112850.	0.8	14

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55	Boosting the activity of Fe-N _x moieties in Fe-N-C electrocatalysts via phosphorus doping for oxygen reduction reaction. <i>Science China Materials</i> , 2020, 63, 965-971.	3.5	71
56	Enhanced electrical properties of La _{1.9} Nd _{0.1} Ti ₂ O ₇ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 1853-1860.	1.1	2
57	Anomalous Linear Layer-Dependent Blue Shift of Ultraviolet-Range Interband Transition in Two-Dimensional MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2020, 124, 1609-1616.	1.5	1
58	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO ₂ . <i>Journal of the American Chemical Society</i> , 2020, 142, 169-184.	6.6	170
59	Spontaneous Solar Syngas Production from CO ₂ Driven by Energetically Favorable Wastewater Microbial Anodes. <i>Joule</i> , 2020, 4, 2149-2161.	11.7	27
60	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , 2020, 3, 1774-1790.	5.0	71
61	Probing Local Vibration Modes at Single Planar Defects by Vibrational Spectroscopy. <i>Microscopy and Microanalysis</i> , 2020, 26, 952-953.	0.2	0
62	The effects of stoichiometry on the properties of exsolved Ni-Fe alloy nanoparticles for dry methane reforming. <i>AIChE Journal</i> , 2020, 66, e17078.	1.8	21
63	Selective Methanol Carbonylation to Acetic Acid on Heterogeneous Atomically Dispersed ReO ₄ /SiO ₂ Catalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 14178-14189.	6.6	51
64	From ion to atom to dendrite: Formation and nanomechanical behavior of electrodeposited lithium. <i>MRS Bulletin</i> , 2020, 45, 891-904.	1.7	9
65	Size-Dependent Nickel-Based Electrocatalysts for Selective CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 18572-18577.	7.2	100
66	Size-Dependent Nickel-Based Electrocatalysts for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020, 132, 18731-18736.	1.6	30
67	Epitaxial antiperovskite/perovskite heterostructures for materials design. <i>Science Advances</i> , 2020, 6, eaba4017.	4.7	18
68	In Situ TEM Studies of Catalysts Using Windowed Gas Cells. <i>Catalysts</i> , 2020, 10, 779.	1.6	21
69	Durable hybrid electrocatalysts for proton exchange membrane fuel cells. <i>Nano Energy</i> , 2020, 77, 105192.	8.2	21
70	Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS ₂ electrocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2020, 11, 4114.	5.8	112
71	Solid-phase hetero epitaxial growth of 1±-phase formamidinium perovskite. <i>Nature Communications</i> , 2020, 11, 5514.	5.8	71
72	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020, 15, 934-940.	15.6	258

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73	Crystallinity after decarboxylation of a metal-organic carboxylate framework: indestructible porosity for catalysis. Dalton Transactions, 2020, 49, 11902-11910.	1.6	10
74	Highly active and stable stepped Cu surface for enhanced electrochemical CO ₂ reduction to C ₂ H ₄ . Nature Catalysis, 2020, 3, 804-812.	16.1	298
75	Single particle tunneling spectrum of superconducting Nd _{1-x} Sr _x NiO ₂ thin films. Nature Communications, 2020, 11, 6027.	5.8	109
76	Observation of Charge Separation along BiFeO ₃ 109° Domain Walls by Using Low-convergence Angle 4-Dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 234-235.	0.2	0
77	Multiscale Electric Field Imaging of Vortices in PbTiO ₃ -SrTiO ₃ Superlattice. Microscopy and Microanalysis, 2020, 26, 466-468.	0.2	1
78	Anomalous Linear Layer-dependent Blue Shift of Interband Transition in Two-Dimensional Materials. Microscopy and Microanalysis, 2020, 26, 634-635.	0.2	0
79	Polarization in Ferroelectric BiFeO ₃ Imaged in 3D Using Four-dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2020, 26, 1132-1134.	0.2	0
80	Low Dose Electron Ptychography for Cryo-biological Imaging. Microscopy and Microanalysis, 2020, 26, 1488-1490.	0.2	0
81	Directly Probing Local Coordination, Charge State and Stability of Single Atom Catalysts. Microscopy and Microanalysis, 2020, 26, 2468-2469.	0.2	1
82	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. Nature Communications, 2020, 11, 2773.	5.8	72
83	Manipulating magnetoelectric energy landscape in multiferroics. Nature Communications, 2020, 11, 2836.	5.8	42
84	General synthesis of two-dimensional van der Waals heterostructure arrays. Nature, 2020, 579, 368-374.	13.7	393
85	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr ₂ Ir ₂ O ₇ thin films. Physical Review B, 2020, 101, .	1.1	17
86	Optimization of Pt-Oxygen-Containing Species Anodes for Ethanol Oxidation Reaction: High Performance of Pt-AuSnO _x Electro-catalyst. Journal of Physical Chemistry Letters, 2020, 11, 2846-2853.	2.1	11
87	Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. Chem, 2020, 6, 2257-2271.	5.8	48
88	Anisotropic and hierarchical SiC@SiO ₂ nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. Science Advances, 2020, 6, eaay6689.	4.7	164
89	The grain boundary mobility tensor. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4533-4538.	3.3	36
90	Giant Uniaxial Strain Ferroelectric Domain Tuning in Freestanding PbTiO ₃ Films. Advanced Materials Interfaces, 2020, 7, 1901604.	1.9	41

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91	Improved Electrical Properties of Layer Structured La ₂ Ti _{1.96} V _{0.04} O ₇ Ceramics. Journal of Electronic Materials, 2020, 49, 2584-2595.	1.0	4
92	Engineering of octahedral rotations and electronic structure in ultrathin SrIrO_3 films. Physical Review B, 2020, 101, .		
93	Pt ₃ Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. Nano Research, 2020, 13, 1472-1478.	5.8	58
94	Aged metastable high-entropy alloys with heterogeneous lamella structure for superior strength-ductility synergy. Acta Materialia, 2020, 199, 602-612.	3.8	72
95	Compressed Intermetallic PdCu for Enhanced Electrocatalysis. ACS Energy Letters, 2020, 5, 3672-3680.	8.8	50
96	Transmission Electron Microscopy of Catalytic Nanomaterials at Atomic Resolution. Microscopy and Microanalysis, 2019, 25, 2054-2055.	0.2	0
97	Measuring Charge State at the Single-Atomic-Column-Base with Four-Dimensional Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 16-17.	0.2	0
98	Machine Learning for Challenging EELS and EDS Spectral Decomposition. Microscopy and Microanalysis, 2019, 25, 180-181.	0.2	4
99	Strong Electronic Interaction of Amorphous Fe ₂ O ₃ Nanosheets with Single-Atom Pt toward Enhanced Carbon Monoxide Oxidation. Advanced Functional Materials, 2019, 29, 1904278.	7.8	51
100	Investigating the Nature of the Active Sites for the CO ₂ Reduction Reaction on Carbon-Based Electrocatalysts. ACS Catalysis, 2019, 9, 7668-7678.	5.5	58
101	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. Nano Letters, 2019, 19, 5431-5436.	4.5	93
102	Intrinsic Conductance of Domain Walls in BiFeO ₃ . Advanced Materials, 2019, 31, e1902099.	11.1	39
103	Structures and electronic properties of domain walls in BiFeO ₃ thin films. National Science Review, 2019, 6, 669-683.	4.6	18
104	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. Matter, 2019, 1, 1567-1580.	5.0	82
105	Synthesis of Heteroatom Rh ^x ReO ₂ Atomically Dispersed Species on Al ₂ O ₃ and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. ACS Catalysis, 2019, 9, 10899-10912.	5.5	81
106	Electron ptychography using an ultrafast direct electron detector. Microscopy and Microanalysis, 2019, 25, 20-21.	0.2	1
107	Mapping the Nanoscale Redshift of Optical Phonon Modes in a Strained Quantum Dot System. Microscopy and Microanalysis, 2019, 25, 626-627.	0.2	1
108	High Spatial Resolution Low-Voltage Electron Imaging and Spectroscopy of Two-Dimensional Materials and Semiconductor Nanostructures. Microscopy and Microanalysis, 2019, 25, 468-469.	0.2	0

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109	Tuning Electronic Structure and Lattice Diffusion Barrier of Ternary PtInNi for Both Improved Activity and Stability Properties in Oxygen Reduction Electrocatalysis. ACS Catalysis, 2019, 9, 11431-11437.	5.5	36
110	Highly crystalline ReSe ₂ atomic layers synthesized by chemical vapor transport. Information Materials, 2019, 1, 552-558.	8.5	24
111	In situ Cathodoluminescence and Monitoring Electronic Structure Change Using Optical TEM Holder. Microscopy and Microanalysis, 2019, 25, 2302-2303.	0.2	1
112	Impact of Heat Treatment on the Electrochemical Properties of Carbon-Supported Octahedral PtNi Nanoparticles. ACS Catalysis, 2019, 9, 11189-11198.	5.5	31
113	Probing Thermal-induced Phonon Energy Shift of SiC in Nanoscale by In situ Vibrational Spectroscopy. Microscopy and Microanalysis, 2019, 25, 622-623.	0.2	2
114	In Situ Observations of Abnormal Pore Size Changes of a Zirconium Based Metal-Organic Framework Using Atomic Resolution S/TEM and EELS. Microscopy and Microanalysis, 2019, 25, 1486-1487.	0.2	1
115	Developing Multifunctional and High Resolution In-situ TEM Holders. Microscopy and Microanalysis, 2019, 25, 1854-1855.	0.2	0
116	Charge Density Mapping via Scanning Diffraction in Scanning Transmission Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 18-19.	0.2	0
117	Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. Nano Letters, 2019, 19, 6812-6818.	4.5	18
118	Unexpected Strong Thermally Induced Phonon Energy Shift for Mapping Local Temperature. Nano Letters, 2019, 19, 7494-7502.	4.5	17
119	3D Electron Ptychography. Microscopy and Microanalysis, 2019, 25, 1802-1803.	0.2	2
120	Observation of Dislocation-Assisted 2-Dimensional Conductive Channels Embedded in Perovskite Thin Films. Microscopy and Microanalysis, 2019, 25, 2410-2411.	0.2	0
121	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. Nature Communications, 2019, 10, 440.	5.8	115
122	Rational Design of Graphene-Supported Single Atom Catalysts for Hydrogen Evolution Reaction. Advanced Energy Materials, 2019, 9, 1803689.	10.2	279
123	Probing the dynamics of nanoparticle formation from a precursor at atomic resolution. Science Advances, 2019, 5, eaau9590.	4.7	40
124	In situ Scanning Transmission Electron Microscopy with Atomic Resolution under Atmospheric Pressure. Microscopy Today, 2019, 27, 16-21.	0.2	1
125	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. Nature, 2019, 570, 344-348.	13.7	38
126	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. ACS Catalysis, 2019, 9, 5929-5934.	5.5	149

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127	Freestanding crystalline oxide perovskites down to the monolayer limit. <i>Nature</i> , 2019, 570, 87-90.	13.7	398
128	Real-time studies of ferroelectric domain switching: a review. <i>Reports on Progress in Physics</i> , 2019, 82, 126502.	8.1	51
129	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 495-503.	16.1	464
130	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. <i>Nature Materials</i> , 2019, 18, 746-751.	13.3	404
131	Epitaxial growth of bronze phase titanium dioxide by molecular beam epitaxy. <i>AIP Advances</i> , 2019, 9, .	0.6	6
132	Highly Uniform Resistive Switching in HfO ₂ Films Embedded with Ordered Metal Nanoisland Arrays. <i>Advanced Functional Materials</i> , 2019, 29, 1808430.	7.8	42
133	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , 2019, 9, 3919.	1.6	44
134	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019, 61, 60-68.	8.2	192
135	Probing vacancy behavior across complex oxide heterointerfaces. <i>Science Advances</i> , 2019, 5, eaau8467.	4.7	21
136	Atomically engineering activation sites onto metallic 1T-MoS ₂ catalysts for enhanced electrochemical hydrogen evolution. <i>Nature Communications</i> , 2019, 10, 982.	5.8	311
137	Tunable intrinsic strain in two-dimensional transition metal electrocatalysts. <i>Science</i> , 2019, 363, 870-874.	6.0	384
138	Oxidation-Induced Atom Diffusion and Surface Restructuring in Faceted Ternary Pt-Cu-Ni Nanoparticles. <i>Chemistry of Materials</i> , 2019, 31, 1720-1728.	3.2	30
139	Mott insulator to metal transition driven by oxygen incorporation in epitaxial LaTiO ₃ films. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	12
140	Rh single atoms on TiO ₂ dynamically respond to reaction conditions by adapting their site. <i>Nature Communications</i> , 2019, 10, 4488.	5.8	191
141	Real-space charge-density imaging with sub-Ångström resolution by four-dimensional electron microscopy. <i>Nature</i> , 2019, 575, 480-484.	13.7	127
142	Self-Assembled Ferroelectric Nanoarray. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2205-2210.	4.0	9
143	(Invited) Probing the Structure and Dynamic Behaviors of Heterogeneous Functional Materials with the Atomic Resolution in Real-Time. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
144	Developed one-pot synthesis of dual-color CdSe quantum dots for white light-emitting diode application. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3089-3096.	2.7	16

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145	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018, 9, 1011.	5.8	87
146	Outbound medical tourists from China: An update on motivations, deterrents, and needs. <i>International Journal of Healthcare Management</i> , 2018, 11, 217-224.	1.2	16
147	Stable iridium dinuclear heterogeneous catalysts supported on metal-oxide substrate for solar water oxidation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2902-2907.	3.3	229
148	Stacking-mode confined growth of 2H-MoTe ₂ /MoS ₂ bilayer heterostructures for UV-vis-IR photodetectors. <i>Nano Energy</i> , 2018, 49, 200-208.	8.2	96
149	Self-assembling epitaxial growth of a single crystalline CoFe ₂ O ₄ nanopillar array via dual-target pulsed laser deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4854-4860.	2.7	4
150	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , 2018, 1, 130-136.	13.1	539
151	Discovery of a magnetic conductive interface in PbZr _{0.2} Ti _{0.8} O ₃ /SrTiO ₃ heterostructures. <i>Nature Communications</i> , 2018, 9, 685.	5.8	20
152	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor In ₂ Se ₃ . <i>Nano Letters</i> , 2018, 18, 1253-1258.	4.5	509
153	Giant Photoresponse in Quantized SrRuO ₃ Monolayer at Oxide Interfaces. <i>ACS Photonics</i> , 2018, 5, 1041-1049.	3.2	23
154	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. <i>Acta Materialia</i> , 2018, 145, 488-495.	3.8	26
155	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO ₃ Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2018, 140, 4841-4848.	6.6	85
156	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO ₃ Epitaxial Thin Film System. <i>Advanced Electronic Materials</i> , 2018, 4, 1800055.	2.6	27
157	Controlling the magic size of white light-emitting CdSe quantum dots. <i>Nanoscale</i> , 2018, 10, 10256-10261.	2.8	10
158	Defect-Induced Hedgehog Polarization States in Multiferroics. <i>Physical Review Letters</i> , 2018, 120, 137602.	2.9	52
159	A study on simultaneous catalytic ozonation of Hg ₀ and NO using Mn-TiO ₂ catalyst at low flue gas temperatures. <i>Chemical Papers</i> , 2018, 72, 1347-1361.	1.0	4
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