

Xiao-Qing Pan

List of Publications by Year in Descending Order

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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.

534
papers

27,337
citations

80
h-index

151
g-index

563
ext. papers

31,665
ext. citations

8.4
avg. IF

6.95
L-index

#	Paper	IF	Citations
534	Visualization and validation of twin nucleation and early-stage growth in magnesium.. <i>Nature Communications</i> , 2022 , 13, 20	17.4	0
533	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 ,	21.8	4
532	Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO Films.. <i>Small</i> , 2022 , e2107540	11	0
531	Electronic reconstruction at the polar (111)-oriented oxide interface. <i>APL Materials</i> , 2022 , 10, 031115	5.7	0
530	Stability-limiting heterointerfaces of perovskite photovoltaics.. <i>Nature</i> , 2022 ,	50.4	31
529	High-density switchable skyrmion-like polar nanodomains integrated on silicon.. <i>Nature</i> , 2022 , 603, 63-67	50.4	11
528	Ferroelectricity in a semiconducting all-inorganic halide perovskite.. <i>Science Advances</i> , 2022 , 8, eabj5881	14.3	8
527	Direct observation of elemental fluctuation and oxygen octahedral distortion-dependent charge distribution in high entropy oxides.. <i>Nature Communications</i> , 2022 , 13, 2358	17.4	5
526	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	13.1	3
525	In-plane quasi-single-domain BaTiO via interfacial symmetry engineering. <i>Nature Communications</i> , 2021 , 12, 6784	17.4	5
524	Experimental observation of localized interfacial phonon modes. <i>Nature Communications</i> , 2021 , 12, 6901	17.4	7
523	Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. <i>Npj Quantum Materials</i> , 2021 , 6,	5	3
522	Giant Thermal Transport Tuning at a Metal/Ferroelectric Interface. <i>Advanced Materials</i> , 2021 , e2105778	24	2
521	Effective Electrochemical Modulation of SERS Intensity Assisted by Core-Shell Nanoparticles. <i>Analytical Chemistry</i> , 2021 , 93, 4441-4448	7.8	5
520	High-order superlattices by rolling up van der Waals heterostructures. <i>Nature</i> , 2021 , 591, 385-390	50.4	47
519	Activating a Two-Dimensional PtSe Basal Plane for the Hydrogen Evolution Reaction through the Simultaneous Generation of Atomic Vacancies and Pt Clusters. <i>Nano Letters</i> , 2021 , 21, 3857-3863	11.5	16
518	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Zn-Air Batteries. <i>Nano Letters</i> , 2021 , 21, 4508-4515	11.5	22

517	Machine Learning: Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets (Small Methods 5/2021). <i>Small Methods</i> , 2021 , 5, 2170020	12.8	
516	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. <i>Nature Communications</i> , 2021 , 12, 3215	17.4	4
515	In Situ Observations of the Dynamics of Pd@Pt Core-Shell Nanoparticles in Electrolyte. <i>Microscopy and Microanalysis</i> , 2021 , 27, 234-236	0.5	0
514	Revealing Abnormal Phonon Polaritons Confined at the Edge of Curved Two-Dimensional Boron Nitride. <i>Microscopy and Microanalysis</i> , 2021 , 27, 130-132	0.5	
513	Phonon Reflections from Nanostructured Interfaces Imaged by Momentum- Averaged and Resolved Vibrational EELS. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1204-1206	0.5	
512	Disconnection-mediated twin junction migration mechanism in FCC metals. <i>Microscopy and Microanalysis</i> , 2021 , 27, 3100-3102	0.5	
511	Investigating the Degradation of Nb2O5 Thin Films Across 10,000 Lithiation/Delithiation Cycles. <i>ACS Applied Energy Materials</i> , 2021 , 4, 6542-6552	6.1	3
510	Synthesis of Heteroatom RhReOx Atomically Dispersed Species on Al2O3 and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1570-1571	0.5	
509	Controllable Growth of Copper on TiO2 Nanoparticles Through Coupled Effects of Solution Viscosity and Photoreduction Rate. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2346-2348	0.5	
508	Probing phonon propagation in materials by angle-resolved and angle-averaged vibrational EELS. <i>Microscopy and Microanalysis</i> , 2021 , 27, 118-120	0.5	
507	Strong electrostatic adsorption approach to the synthesis of sub-three nanometer intermetallic platinum-cobalt oxygen reduction catalysts. <i>Nano Energy</i> , 2021 , 79, 105465	17.1	23
506	FeNi Electrocatalysts Durability: Effects of Single Atoms Mobility and Clustering. <i>ACS Catalysis</i> , 2021 , 11, 484-494	13.1	18
505	Solar-assisted co-electrolysis of glycerol and water for concurrent production of formic acid and hydrogen. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 19975-19983	13	4
504	Machine Learning Method Reveals Hidden Strong Metal-Support Interaction in Microscopy Datasets.. <i>Small Methods</i> , 2021 , 5, e2100035	12.8	5
503	Directly Probing the Local Coordination, Charge State, and Stability of Single Atom Catalysts by Advanced Electron Microscopy: A Review. <i>Small</i> , 2021 , 17, e2006482	11	15
502	Rewritable High-Mobility Electrons in Oxide Heterostructure of Layered Perovskite/Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 7812-7821	9.5	2
501	High-Throughput Intelligent Analysis of High and Low-Loss EELS. <i>Microscopy and Microanalysis</i> , 2021 , 27, 626-628	0.5	
500	Direct observation of polarization-induced two-dimensional electron/hole gases at ferroelectric-insulator interface. <i>Microscopy and Microanalysis</i> , 2021 , 27, 712-713	0.5	

499	Observation of a charged incoherent BiFeO ₃ /SrTiO ₃ interface. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1454-1455	0.5	
498	Probing the Dynamics of Phase Transformation in Nanostructures by STEM Imaging and Spectroscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1964-1966	0.5	
497	Space- and Angle-Resolved Vibrational Spectroscopy to Probe the Local Phonon Modes at Planar Defects. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1190-1192	0.5	
496	Exsolution of Embedded NiFeCo Nanoparticles: Implications for Dry Reforming of Methane. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8626-8636	5.6	3
495	Emergent properties at oxide interfaces controlled by ferroelectric polarization. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	1
494	Capturing 3D atomic defects and phonon localization at the 2D heterostructure interface. <i>Science Advances</i> , 2021 , 7, eabi6699	14.3	2
493	Laser-Irradiated Holey Graphene-Supported Single-Atom Catalyst towards Hydrogen Evolution and Oxygen Reduction. <i>Advanced Energy Materials</i> , 2021 , 11, 2101619	21.8	14
492	Stone-Wales defect-rich carbon-supported dual-metal single atom sites for Zn-air batteries. <i>Nano Energy</i> , 2021 , 90, 106488	17.1	9
491	Single-defect phonons imaged by electron microscopy. <i>Nature</i> , 2021 , 589, 65-69	50.4	44
490	Observation of Charge Separation along BiFeO ₃ 109° Domain Walls by Using Low-convergence Angle 4-Dimensional Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 234-235	0.5	
489	Multiscale Electric Field Imaging of Vortices in PbTiO ₃ -SrTiO ₃ Superlattice. <i>Microscopy and Microanalysis</i> , 2020 , 26, 466-468	0.5	0
488	Anomalous Linear Layer-dependent Blue Shift of Interband Transition in Two-Dimensional Materials. <i>Microscopy and Microanalysis</i> , 2020 , 26, 634-635	0.5	
487	Polarization in Ferroelectric BiFeO ₃ Imaged in 3D Using Four-dimensional Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1132-1134	0.5	
486	Low Dose Electron Ptychography for Cryo-biological Imaging. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1488-1490	0.5	
485	Directly Probing Local Coordination, Charge State and Stability of Single Atom Catalysts. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2468-2469	0.5	1
484	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , 2020 , 11, 2773	17.4	25
483	Manipulating magnetoelectric energy landscape in multiferroics. <i>Nature Communications</i> , 2020 , 11, 2836	17.4	18
482	General synthesis of two-dimensional van der Waals heterostructure arrays. <i>Nature</i> , 2020 , 579, 368-374	50.4	195

481	Spontaneous Hall effect enhanced by local Ir moments in epitaxial Pr ₂ Ir ₂ O ₇ thin films. <i>Physical Review B</i> , 2020 , 101,	3.3	7
480	Optimization of Pt-Oxygen-Containing Species Anodes for Ethanol Oxidation Reaction: High Performance of Pt-AuSnO Electrocatalyst. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 2846-2853	6.4	9
479	Strain-Induced Corrosion Kinetics at Nanoscale Are Revealed in Liquid: Enabling Control of Corrosion Dynamics of Electrocatalysis. <i>Chem</i> , 2020 , 6, 2257-2271	16.2	24
478	Anisotropic and hierarchical SiC@SiO nanowire aerogel with exceptional stiffness and stability for thermal superinsulation. <i>Science Advances</i> , 2020 , 6, eaay6689	14.3	56
477	The grain boundary mobility tensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4533-4538	11.5	17
476	Giant Uniaxial Strain Ferroelectric Domain Tuning in Freestanding PbTiO ₃ Films. <i>Advanced Materials Interfaces</i> , 2020 , 7, 1901604	4.6	21
475	Improved Electrical Properties of Layer Structured La ₂ Ti _{1.96} V _{0.04} O ₇ Ceramics. <i>Journal of Electronic Materials</i> , 2020 , 49, 2584-2595	1.9	3
474	Engineering of octahedral rotations and electronic structure in ultrathin SrIrO ₃ films. <i>Physical Review B</i> , 2020 , 101,	3.3	9
473	Pt ₃ Ag alloy wavy nanowires as highly effective electrocatalysts for ethanol oxidation reaction. <i>Nano Research</i> , 2020 , 13, 1472-1478	10	25
472	Aged metastable high-entropy alloys with heterogeneous lamella structure for superior strength-ductility synergy. <i>Acta Materialia</i> , 2020 , 199, 602-612	8.4	26
471	Compressed Intermetallic PdCu for Enhanced Electrocatalysis. <i>ACS Energy Letters</i> , 2020 , 5, 3672-3680	20.1	19
470	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	7.1	31
469	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	2.1	2
468	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	3.8	1
467	Uniformity Is Key in Defining Structure-Function Relationships for Atomically Dispersed Metal Catalysts: The Case of Pt/CeO. <i>Journal of the American Chemical Society</i> , 2020 , 142, 169-184	16.4	90
466	Spontaneous Solar Syngas Production from CO ₂ Driven by Energetically Favorable Wastewater Microbial Anodes. <i>Joule</i> , 2020 , 4, 2149-2161	27.8	15
465	Tailoring a Three-Phase Microenvironment for High-Performance Oxygen Reduction Reaction in Proton Exchange Membrane Fuel Cells. <i>Matter</i> , 2020 , 3, 1774-1790	12.7	30
464	Probing Local Vibration Modes at Single Planar Defects by Vibrational Spectroscopy. <i>Microscopy and Microanalysis</i> , 2020 , 26, 952-953	0.5	

463	The effects of stoichiometry on the properties of exsolved Ni-Fe alloy nanoparticles for dry methane reforming. <i>AIChE Journal</i> , 2020 , 66, e17078	3.6	10
462	Selective Methanol Carbonylation to Acetic Acid on Heterogeneous Atomically Dispersed ReO/SiO Catalysts. <i>Journal of the American Chemical Society</i> , 2020 , 142, 14178-14189	16.4	16
461	From ion to atom to dendrite: Formation and nanomechanical behavior of electrodeposited lithium. <i>MRS Bulletin</i> , 2020 , 45, 891-904	3.2	6
460	Size-Dependent Nickel-Based Electrocatalysts for Selective CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 18572-18577	16.4	37
459	Size-Dependent Nickel-Based Electrocatalysts for Selective CO ₂ Reduction. <i>Angewandte Chemie</i> , 2020 , 132, 18731-18736	3.6	13
458	Epitaxial antiperovskite/perovskite heterostructures for materials design. <i>Science Advances</i> , 2020 , 6, eaba4017	14.3	9
457	In Situ TEM Studies of Catalysts Using Windowed Gas Cells. <i>Catalysts</i> , 2020 , 10, 779	4	12
456	Durable hybrid electrocatalysts for proton exchange membrane fuel cells. <i>Nano Energy</i> , 2020 , 77, 105192	7.1	7
455	Dynamic evolution and reversibility of single-atom Ni(II) active site in 1T-MoS electrocatalysts for hydrogen evolution. <i>Nature Communications</i> , 2020 , 11, 4114	17.4	52
454	Solid-phase hetero epitaxial growth of β -phase formamidinium perovskite. <i>Nature Communications</i> , 2020 , 11, 5514	17.4	38
453	2D metal-organic framework for stable perovskite solar cells with minimized lead leakage. <i>Nature Nanotechnology</i> , 2020 , 15, 934-940	28.7	119
452	Crystallinity after decarboxylation of a metal-carboxylate framework: indestructible porosity for catalysis. <i>Dalton Transactions</i> , 2020 , 49, 11902-11910	4.3	6
451	Highly active and stable stepped Cu surface for enhanced electrochemical CO ₂ reduction to C ₂ H ₄ . <i>Nature Catalysis</i> , 2020 , 3, 804-812	36.5	118
450	Single particle tunneling spectrum of superconducting NdSrNiO thin films. <i>Nature Communications</i> , 2020 , 11, 6027	17.4	38
449	Thickness and defocus dependence of inter-atomic electric fields measured by scanning diffraction. <i>Ultramicroscopy</i> , 2020 , 208, 112850	3.1	10
448	Probing Thermal-induced Phonon Energy Shift of SiC in Nanoscale by in situ Vibrational Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 622-623	0.5	2
447	In Situ Observations of Abnormal Pore Size Changes of a Zirconium Based Metal-Organic Framework Using Atomic Resolution S/TEM and EELS. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1486-1487	0.5	1
446	Developing Multifunctional and High Resolution In-situ TEM Holders. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1854-1855	0.5	

445	Charge Density Mapping via Scanning Diffraction in Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 18-19	0.5	
444	Observation of Strong Polarization Enhancement in Ferroelectric Tunnel Junctions. <i>Nano Letters</i> , 2019 , 19, 6812-6818	11.5	12
443	Unexpected Strong Thermally Induced Phonon Energy Shift for Mapping Local Temperature. <i>Nano Letters</i> , 2019 , 19, 7494-7502	11.5	10
442	3D Electron Ptychography. <i>Microscopy and Microanalysis</i> , 2019 , 25, 1802-1803	0.5	2
441	Observation of Dislocation-Assisted 2-Dimensional Conductive Channels Embedded in Perovskite Thin Films. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2410-2411	0.5	
440	Platinum-trimer decorated cobalt-palladium core-shell nanocatalyst with promising performance for oxygen reduction reaction. <i>Nature Communications</i> , 2019 , 10, 440	17.4	76
439	Rational Design of Graphene-Supported Single Atom Catalysts for Hydrogen Evolution Reaction. <i>Advanced Energy Materials</i> , 2019 , 9, 1803689	21.8	147
438	Probing the dynamics of nanoparticle formation from a precursor at atomic resolution. <i>Science Advances</i> , 2019 , 5, eaau9590	14.3	29
437	In situ Scanning Transmission Electron Microscopy with Atomic Resolution under Atmospheric Pressure. <i>Microscopy Today</i> , 2019 , 27, 16-21	0.4	1
436	Perfect Andreev reflection due to the Klein paradox in a topological superconducting state. <i>Nature</i> , 2019 , 570, 344-348	50.4	19
435	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 5929-5934	13.1	98
434	Freestanding crystalline oxide perovskites down to the monolayer limit. <i>Nature</i> , 2019 , 570, 87-90	50.4	206
433	Real-time studies of ferroelectric domain switching: a review. <i>Reports on Progress in Physics</i> , 2019 , 82, 126502	14.4	20
432	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019 , 2, 495-503	36.5	258
431	Structural evolution of atomically dispersed Pt catalysts dictates reactivity. <i>Nature Materials</i> , 2019 , 18, 746-751	27	250
430	Epitaxial growth of bronze phase titanium dioxide by molecular beam epitaxy. <i>AIP Advances</i> , 2019 , 9, 035230	1.5	2
429	Highly Uniform Resistive Switching in HfO ₂ Films Embedded with Ordered Metal Nanoisland Arrays. <i>Advanced Functional Materials</i> , 2019 , 29, 1808430	15.6	15
428	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , 2019 , 9, 3919	4.9	25

427	Nitrogen-coordinated single iron atom catalysts derived from metal organic frameworks for oxygen reduction reaction. <i>Nano Energy</i> , 2019 , 61, 60-68	17.1	126
426	Transmission Electron Microscopy of Catalytic Nanomaterials at Atomic Resolution. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2054-2055	0.5	
425	Measuring Charge State at the Single-Atomic-Column-Base with Four-Dimensional Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 16-17	0.5	
424	Machine Learning for Challenging EELS and EDS Spectral Decomposition. <i>Microscopy and Microanalysis</i> , 2019 , 25, 180-181	0.5	1
423	Strong Electronic Interaction of Amorphous Fe ₂ O ₃ Nanosheets with Single-Atom Pt toward Enhanced Carbon Monoxide Oxidation. <i>Advanced Functional Materials</i> , 2019 , 29, 1904278	15.6	32
422	Investigating the Nature of the Active Sites for the CO ₂ Reduction Reaction on Carbon-Based Electrocatalysts. <i>ACS Catalysis</i> , 2019 , 9, 7668-7678	13.1	34
421	PtCuNi Tetrahedra Catalysts with Tailored Surfaces for Efficient Alcohol Oxidation. <i>Nano Letters</i> , 2019 , 19, 5431-5436	11.5	56
420	Intrinsic Conductance of Domain Walls in BiFeO ₃ . <i>Advanced Materials</i> , 2019 , 31, e1902099	24	22
419	Structures and electronic properties of domain walls in BiFeO ₃ thin films. <i>National Science Review</i> , 2019 , 6, 669-683	10.8	9
418	Differential Surface Elemental Distribution Leads to Significantly Enhanced Stability of PtNi-Based ORR Catalysts. <i>Matter</i> , 2019 , 1, 1567-1580	12.7	53
417	Synthesis of Heteroatom Rh ₂ BeO _x Atomically Dispersed Species on Al ₂ O ₃ and Their Tunable Catalytic Reactivity in Ethylene Hydroformylation. <i>ACS Catalysis</i> , 2019 , 9, 10899-10912	13.1	45
416	Electron ptychography using an ultrafast direct electron detector. <i>Microscopy and Microanalysis</i> , 2019 , 25, 20-21	0.5	0
415	Mapping the Nanoscale Redshift of Optical Phonon Modes in a Strained Quantum Dot System. <i>Microscopy and Microanalysis</i> , 2019 , 25, 626-627	0.5	1
414	High Spatial Resolution Low-Voltage Electron Imaging and Spectroscopy of Two-Dimensional Materials and Semiconductor Nanostructures. <i>Microscopy and Microanalysis</i> , 2019 , 25, 468-469	0.5	
413	Tuning Electronic Structure and Lattice Diffusion Barrier of Ternary Pt _{1-x} Co _x Ni for Both Improved Activity and Stability Properties in Oxygen Reduction Electrocatalysis. <i>ACS Catalysis</i> , 2019 , 9, 11431-11437	13.1	21
412	Highly crystalline ReSe ₂ atomic layers synthesized by chemical vapor transport. <i>Informa Materially</i> , 2019 , 1, 552-558	23.1	17
411	In situ Cathodoluminescence and Monitoring Electronic Structure Change Using Optical TEM Holder. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2302-2303	0.5	1
410	Impact of Heat Treatment on the Electrochemical Properties of Carbon-Supported Octahedral Pt ₃ Ni Nanoparticles. <i>ACS Catalysis</i> , 2019 , 9, 11189-11198	13.1	17

409	Probing vacancy behavior across complex oxide heterointerfaces. <i>Science Advances</i> , 2019 , 5, eaau8467	14.3	12
408	Atomically engineering activation sites onto metallic 1T-MoS catalysts for enhanced electrochemical hydrogen evolution. <i>Nature Communications</i> , 2019 , 10, 982	17.4	180
407	Tunable intrinsic strain in two-dimensional transition metal electrocatalysts. <i>Science</i> , 2019 , 363, 870-874	33.3	238
406	Oxidation-Induced Atom Diffusion and Surface Restructuring in Faceted Ternary Pt ₃ TiNi Nanoparticles. <i>Chemistry of Materials</i> , 2019 , 31, 1720-1728	9.6	21
405	Mott insulator to metal transition driven by oxygen incorporation in epitaxial LaTiO ₃ films. <i>Applied Physics Letters</i> , 2019 , 115, 261604	3.4	8
404	Rh single atoms on TiO dynamically respond to reaction conditions by adapting their site. <i>Nature Communications</i> , 2019 , 10, 4488	17.4	99
403	Real-space charge-density imaging with sub-Å resolution by four-dimensional electron microscopy. <i>Nature</i> , 2019 , 575, 480-484	50.4	67
402	Self-Assembled Ferroelectric Nanoarray. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 2205-2210	9.5	5
401	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	7.1	12
400	Nanoscale kinetics of asymmetrical corrosion in core-shell nanoparticles. <i>Nature Communications</i> , 2018 , 9, 1011	17.4	64
399	Outbound medical tourists from China: An update on motivations, deterrents, and needs. <i>International Journal of Healthcare Management</i> , 2018 , 11, 217-224	1.4	11
398	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	11.5	156
397	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	17.1	65
396	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	7.1	4
395	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , 2018 , 1, 130-136	28.4	348
394	Discovery of a magnetic conductive interface in PbZrTiO ₃ /SrTiO ₃ heterostructures. <i>Nature Communications</i> , 2018 , 9, 685	17.4	12
393	Intercorrelated In-Plane and Out-of-Plane Ferroelectricity in Ultrathin Two-Dimensional Layered Semiconductor InSe. <i>Nano Letters</i> , 2018 , 18, 1253-1258	11.5	293
392	Giant Photoresponse in Quantized SrRuO ₃ Monolayer at Oxide Interfaces. <i>ACS Photonics</i> , 2018 , 5, 1041-1049	10.49	17

391	Tuning Fe concentration in epitaxial gallium ferrite thin films for room temperature multiferroic properties. <i>Acta Materialia</i> , 2018 , 145, 488-495	8.4	20
390	Smart Pd Catalyst with Improved Thermal Stability Supported on High-Surface-Area LaFeO Prepared by Atomic Layer Deposition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4841-4848	16.4	71
389	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	6.4	19
388	Controlling the magic size of white light-emitting CdSe quantum dots. <i>Nanoscale</i> , 2018 , 10, 10256-10261	7.7	6
387	Defect-Induced Hedgehog Polarization States in Multiferroics. <i>Physical Review Letters</i> , 2018 , 120, 137602	7.4	34
386	A study on simultaneous catalytic ozonation of Hg ₀ and NO using Mn ₂ O ₃ catalyst at low flue gas temperatures. <i>Chemical Papers</i> , 2018 , 72, 1347-1361	1.9	3
385	Engineering Temperature-Dependent Carrier Concentration in Bulk Composite Materials via Temperature-Dependent Fermi Level Offset. <i>Advanced Energy Materials</i> , 2018 , 8, 1701623	21.8	15
384	Neighboring Pt Atom Sites in an Ultrathin FePt Nanosheet for the Efficient and Highly CO-Tolerant Oxygen Reduction Reaction. <i>Nano Letters</i> , 2018 , 18, 5905-5912	11.5	58
383	Control of Domain Structures in Multiferroic Thin Films through Defect Engineering. <i>Advanced Materials</i> , 2018 , 30, e1802737	24	21
382	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
381	Development of in situ optical-electrical MEMS platform for semiconductor characterization. <i>Ultramicroscopy</i> , 2018 , 194, 57-63	3.1	2
380	End-On Bound Iridium Dinuclear Heterogeneous Catalysts on WO ₃ for Solar Water Oxidation. <i>ACS Central Science</i> , 2018 , 4, 1166-1172	16.8	54
379	Surface-Engineered PtNi-O Nanostructure with Record-High Performance for Electrocatalytic Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9046-9050	16.4	258
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364	Combined In Situ and Ex Situ Study on Synthesis of Nanostructured Catalyst in Solid State. <i>Microscopy and Microanalysis</i> , 2018 , 24, 288-289	0.5	
363	Investigating Thermal Behavior of Surface Phonon in SiC by in-situ Vibrational Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 416-417	0.5	
362	In situ Scanning Transmission Electron Microscopy with Atomic Resolution under Atmospheric Pressures. <i>Microscopy and Microanalysis</i> , 2018 , 24, 234-235	0.5	
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