Peng Gao

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.

333	19,762 citations	57	136
papers		h-index	g-index
359 ext. papers	23,858 ext. citations	12.4 avg, IF	6.99 L-index

#	Paper	IF	Citations
333	Engineering of atomic-scale flexoelectricity at grain boundaries <i>Nature Communications</i> , 2022 , 13, 216	17.4	4
332	Electrically driven motion, destruction, and chirality change of polar vortices in oxide superlattices. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022 , 65, 1	3.6	1
331	Computational Evaluation of Li-doped g-C2N Monolayer as Advanced Hydrogen Storage Media. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 3625-3632	6.7	1
330	Intrinsic Wettability in Pristine Graphene (Adv. Mater. 6/2022). Advanced Materials, 2022, 34, 2270050	24	0
329	Atomic-Scale Mechanism of Spontaneous Polarity Inversion in AlN on Nonpolar Sapphire Substrate Grown by MOCVD <i>Small</i> , 2022 , e2200057	11	2
328	Microscopic physical origin of polarization induced large tunneling electroresistance in tetragonal-phase BiFeO3. <i>Acta Materialia</i> , 2022 , 225, 117564	8.4	0
327	Regulating Crystal Facets of MnO2 for Enhancing Peroxymonosulfate Activation to Degrade Pollutants: Performance and Mechanism. <i>Catalysts</i> , 2022 , 12, 342	4	2
326	Flexoelectric Domain Walls Originated from Structural Phase Transition in Epitaxial BiVO Films <i>Small</i> , 2022 , e2107540	11	O
325	Switching magnon chirality in artificial ferrimagnet <i>Nature Communications</i> , 2022 , 13, 1264	17.4	1
324	Vertical Graphene-Reinforced Titanium Alloy Bipolar Plates in Fuel Cells Advanced Materials, 2022 , e27	11204565	5 2
323	Role of oxygen vacancies in colossal polarization in SmFeO thin films Science Advances, 2022, 8, eabm8	8 5:5 ;03	2
322	Large-scale Hf Zr O Membranes with Robust Ferroelectricity Advanced Materials, 2022, e2109889	24	2
321	Graphene-driving strain engineering to enable strain-free epitaxy of AlN film for deep ultraviolet light-emitting diode <i>Light: Science and Applications</i> , 2022 , 11, 88	16.7	3
320	Role of binary metal chalcogenides in extending the limits of energy storage systems: Challenges and possible solutions. <i>Science China Materials</i> , 2022 , 65, 559-592	7.1	1
319	Automatic classification of rural building characteristics using deep learning methods on oblique photography. <i>Building Simulation</i> , 2022 , 15, 1161-1174	3.9	2
318	Studying plasmon dispersion of MXene for enhanced electromagnetic absorption <i>Advanced Materials</i> , 2022 , e2201120	24	0
317	Van der Waals integration of high-Фerovskite oxides and two-dimensional semiconductors. <i>Nature Electronics</i> , 2022 , 5, 233-240	28.4	13

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316	Atomic structure and electrical/ionic activity of antiphase boundary in CH3NH3PbI3. <i>Acta Materialia</i> , 2022 , 234, 118010	8.4	1
315	Long decay length of magnon-polarons in BiFeO/LaSrMnO heterostructures <i>Nature Communications</i> , 2021 , 12, 7258	17.4	2
314	Intrinsic Wettability in Pristine Graphene. Advanced Materials, 2021, e2103620	24	9
313	Two Birds with One Stone: Interfacial Engineering of Multifunctional Janus Separator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2021 , e2107638	24	11
312	Direct growth of wafer-scale highly oriented graphene on sapphire. <i>Science Advances</i> , 2021 , 7, eabk011	514.3	5
311	Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS monolayer on vicinal a-plane sapphire. <i>Nature Nanotechnology</i> , 2021 ,	28.7	31
310	Measuring phonon dispersion at an interface. <i>Nature</i> , 2021 , 599, 399-403	50.4	6
309	Substitutionally Doped MoSe for High-Performance Electronics and Optoelectronics. <i>Small</i> , 2021 , 17, e2102855	11	3
308	Transfer-Enabled Fabrication of Graphene Wrinkle Arrays for Epitaxial Growth of AlN Films. <i>Advanced Materials</i> , 2021 , e2105851	24	2
307	Bidirectional and reversible tuning of the interlayer spacing of two-dimensional materials. <i>Nature Communications</i> , 2021 , 12, 5886	17.4	8
306	Conceptual Framework for Dislocation-Modified Conductivity in Oxide Ceramics Deconvoluting Mesoscopic Structure, Core, and Space Charge Exemplified for SrTiO. <i>ACS Nano</i> , 2021 , 15, 9355-9367	16.7	17
305	Graphene-Nanorod Enhanced Quasi-Van Der Waals Epitaxy for High Indium Composition Nitride Films. <i>Small</i> , 2021 , 17, e2100098	11	7
304	Microscopic Kinetics Pathway of Salt Crystallization in Graphene Nanocapillaries. <i>Physical Review Letters</i> , 2021 , 126, 136001	7.4	9
303	Toroidal polar topology in strained ferroelectric polymer. <i>Science</i> , 2021 , 371, 1050-1056	33.3	24
302	Seeded 2D epitaxy of large-area single-crystal films of the van der Waals semiconductor 2H MoTe. <i>Science</i> , 2021 , 372, 195-200	33.3	52
301	Creating polar antivortex in PbTiO/SrTiO superlattice. <i>Nature Communications</i> , 2021 , 12, 2054	17.4	14
300	Wafer-Scale Oxygen-Doped MoS Monolayer Small Methods, 2021 , 5, e2100091	12.8	6
299	Engineering of multiferroic BiFeO3 grain boundaries with head-to-head polarization configurations. <i>Science Bulletin</i> , 2021 , 66, 771-776	10.6	2

298	Three dimensional band-filling control of complex oxides triggered by interfacial electron transfer. <i>Nature Communications</i> , 2021 , 12, 2447	17.4	7
297	Au Clusters on Pd Nanosheets Selectively Switch the Pathway of Ethanol Electrooxidation: Amorphous/Crystalline Interface Matters. <i>Advanced Energy Materials</i> , 2021 , 11, 2100187	21.8	34
296	Zone-Folded Longitudinal Acoustic Phonons Driving Self-Trapped State Emission in Colloidal CdSe Nanoplatelet Superlattices. <i>Nano Letters</i> , 2021 , 21, 4137-4144	11.5	5
295	Modification of the Interlayer Coupling and Chemical Reactivity of Multilayer Graphene through Wrinkle Engineering. <i>Chemistry of Materials</i> , 2021 , 33, 2506-2515	9.6	5
294	Lattice-resolution visualization of anisotropic sodiation degrees and revelation of sodium storage mechanisms in todorokite-type MnO2 with in-situ TEM. <i>Energy Storage Materials</i> , 2021 , 37, 345-353	19.4	2
293	Adhesion-Enhanced Vertically Oriented Graphene on Titanium-Covered Quartz Glass toward High-Stability Light-Dimming-Related Applications. <i>ACS Nano</i> , 2021 , 15, 10514-10524	16.7	4
292	Prototype Design of a Domain-Wall-Based Magnetic Memory Using a Single Layer LaSrMnO Thin Film. <i>ACS Applied Materials & Domain-Wall-Based</i> , 13, 23945-23950	9.5	1
291	Two-Dimensional BiSrCaCuO Nanosheets for Ultrafast Photonics and Optoelectronics. <i>ACS Nano</i> , 2021 , 15, 8919-8929	16.7	4
2 90	Tunable Pore Size from Sub-Nanometer to a Few Nanometers in Large-Area Graphene Nanoporous Atomically Thin Membranes. <i>ACS Applied Materials & Description of the Communication o</i>	9.5	2
289	Two-Dimensional Room-Temperature Giant Antiferrodistortive SrTiO_{3} at a Grain Boundary. <i>Physical Review Letters</i> , 2021 , 126, 225702	7.4	2
288	Anisotropic moir potical transitions in twisted monolayer/bilayer phosphorene heterostructures. <i>Nature Communications</i> , 2021 , 12, 3947	17.4	9
287	Sub-Nanometer Pt Clusters on Defective NiFe LDH Nanosheets as Trifunctional Electrocatalysts for Water Splitting and Rechargeable Hybrid Sodium-Air Batteries. <i>ACS Applied Materials & amp; Interfaces,</i> 2021 , 13, 26891-26903	9.5	13
286	Superelastic oxide micropillars enabled by surface tension-modulated 90° domain switching with excellent fatigue resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	4
285	Computational exploration of magnesium-decorated carbon nitride (g-C3N4) monolayer as advanced energy storage materials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 21739-21747	6.7	11
284	Inside Back Cover: Wafer-Scale Oxygen-Doped MoS2 Monolayer (Small Methods 6/2021). <i>Small Methods</i> , 2021 , 5, 2170026	12.8	
283	Engineering polar vortex from topologically trivial domain architecture. <i>Nature Communications</i> , 2021 , 12, 4620	17.4	4
282	Computational evaluation of superalkali-decorated graphene nanoribbon as advanced hydrogen storage materials. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 24510-24516	6.7	5
281	Correlating the electronic structures of metallic/semiconducting MoTe interface to its atomic structures. <i>National Science Review</i> , 2021 , 8, nwaa087	10.8	1

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280	3D star-like atypical hybrid MOF derived single-atom catalyst boosts oxygen reduction catalysis. <i>Journal of Energy Chemistry</i> , 2021 , 55, 355-360	12	46
279	A systematic benchmarking of 31P and 19F NMR chemical shift predictions using different DFT/GIAO methods and applying linear regression to improve the prediction accuracy. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26482	2.1	2
278	Product-Specific Active Site Motifs of Cu for Electrochemical CO2 Reduction. <i>CheM</i> , 2021 , 7, 406-420	16.2	27
277	Reaction Mechanism and Structural Evolution of Fluorographite Cathodes in Solid-State K/Na/Li Batteries. <i>Advanced Materials</i> , 2021 , 33, e2006118	24	19
276	Dislocation-induced large local polarization inhomogeneity of ferroelectric materials. <i>Scripta Materialia</i> , 2021 , 194, 113624	5.6	2
275	Bulk and surface degradation in layered Ni-rich cathode for Li ions batteries: Defect proliferation via chain reaction mechanism. <i>Energy Storage Materials</i> , 2021 , 35, 62-69	19.4	11
274	In situ TEM revealing the effects of dislocations on lithium-ion migration in transition metal dichalcogenides. <i>Journal of Energy Chemistry</i> , 2021 , 58, 280-284	12	1
273	Direct observation of highly confined phonon polaritons in suspended monolayer hexagonal boron nitride. <i>Nature Materials</i> , 2021 , 20, 43-48	27	34
272	Modeling and simulation of high-efficiency GaAs PIN solar cells. <i>Journal of Computational Electronics</i> , 2021 , 20, 310-316	1.8	0
271	Development of in situ optical spectroscopy with high temporal resolution in an aberration-corrected transmission electron microscope. <i>Review of Scientific Instruments</i> , 2021 , 92, 0137	0 ¹ 4 ⁷	3
270	A general QSPR protocol for the prediction of atomic/inter-atomic properties: a fragment based graph convolutional neural network (F-GCN). <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13242-13249	₉ 3.6	1
269	A Highly Strained Phase in PbZrTiO Films with Enhanced Ferroelectric Properties. <i>Advanced Science</i> , 2021 , 8, 2003582	13.6	10
268	Four-dimensional vibrational spectroscopy for nanoscale mapping of phonon dispersion in BN nanotubes. <i>Nature Communications</i> , 2021 , 12, 1179	17.4	6
267	Understanding the Intra-Molecular Proton Transfer of Octahydrotriborate and Exploring the Dehydrogenation Pathways of NH4B3H8 by DFT Calculations. <i>Advanced Theory and Simulations</i> , 2021 , 4, 2000287	3.5	4
266	Van der Waals epitaxy of nearly single-crystalline nitride films on amorphous graphene-glass wafer. <i>Science Advances</i> , 2021 , 7,	14.3	12
265	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NO in Water to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20711-20716	16.4	14
264	Schottky Barrier-Induced Surface Electric Field Boosts Universal Reduction of NOxlin Water to Ammonia. <i>Angewandte Chemie</i> , 2021 , 133, 20879-20884	3.6	7
263	Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. <i>ACS Nano</i> , 2021 , 15, 16562-165	716. ₇	2

262	Sub-2 nm Ultrasmall High-Entropy Alloy Nanoparticles for Extremely Superior Electrocatalytic Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17117-17127	16.4	27
261	Atomic-scale imaging of CHNHPbI structure and its decomposition pathway. <i>Nature Communications</i> , 2021 , 12, 5516	17.4	10
260	Heterojunction-Based Electron Donators to Stabilize and Activate Ultrafine Pt Nanoparticles for Efficient Hydrogen Atom Dissociation and Gas Evolution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25766-25770	16.4	5
259	Accurate predictions of drugs aqueous solubility via deep learning tools. <i>Journal of Molecular Structure</i> , 2021 , 1249, 131562	3.4	2
258	Computational evaluation of Mg-decorated g-CN as clean energy gas storage media. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 35130-35136	6.7	3
257	A mechanistic study of electrode materials for rechargeable batteries beyond lithium ions by in situ transmission electron microscopy. <i>Energy and Environmental Science</i> , 2021 , 14, 2670-2707	35.4	10
256	Synthesis of centimeter-scale high-quality polycrystalline hexagonal boron nitride films from Fe fluxes. <i>Nanoscale</i> , 2021 , 13, 11223-11231	7.7	1
255	Atomic-Scale Mechanism of Grain Boundary Effects on the Magnetic and Transport Properties of FeO Bicrystal Films. <i>ACS Applied Materials & Amp; Interfaces</i> , 2021 , 13, 6889-6896	9.5	2
254	Graphene-induced crystal-healing of AlN film by thermal annealing for deep ultraviolet light-emitting diodes. <i>Applied Physics Letters</i> , 2020 , 117, 181103	3.4	5
253	Elucidating the Roles of Hole Transport Layers in p-i-n Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000149	6.4	7
252	A three-dimensional interconnected V6O13 nest with a V5+-rich state for ultrahigh Zn ion storage. Journal of Materials Chemistry A, 2020 , 8, 10370-10376	13	39
251	General Decomposition Pathway of Organic-Inorganic Hybrid Perovskites through an Intermediate Superstructure and its Suppression Mechanism. <i>Advanced Materials</i> , 2020 , 32, e2001107	24	23
250	Epitaxial array of Fe3O4 nanodots for high rate high capacity conversion type lithium ion batteries electrode with long cycling life. <i>Nano Energy</i> , 2020 , 74, 104876	17.1	31
249	Antiferromagnetic Magnetic Polaron Formation and Optical Properties of CVD-Grown Mn-Doped Zinc Stannate (ZTO). <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1679-1688	4	6
248	Bending Strain-Tailored Magnetic and Electronic Transport Properties of Reactively Sputtered ©FeN/Muscovite Epitaxial Heterostructures toward Flexible Spintronics. <i>ACS Applied Materials</i> & amp; Interfaces, 2020, 12, 27394-27404	9.5	9
247	Seeded growth of large single-crystal copper foils with high-index facets. <i>Nature</i> , 2020 , 581, 406-410	50.4	68
246	Highly Flexible and Twistable Freestanding Single Crystalline Magnetite Film with Robust Magnetism. <i>Advanced Functional Materials</i> , 2020 , 30, 2003495	15.6	26
245	Unraveling Atomically Irreversible Cation Migration in Sodium Layered Oxide Cathodes. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5464-5470	6.4	9

244	Image Restoration via Deep Memory-Based Latent Attention Network. IEEE Access, 2020, 8, 104728-10	47339	2
243	Carbon Fibers Embedded With Iron Selenide (Fe Se) as Anode for High-Performance Sodium and Potassium Ion Batteries. <i>Frontiers in Chemistry</i> , 2020 , 8, 408	5	11
242	Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes. <i>Advanced Functional Materials</i> , 2020 , 30, 2001483	15.6	15
241	Local modulation of excitons and trions in monolayer WS2 by carbon nanotubes. <i>Nano Research</i> , 2020 , 13, 1982-1987	10	3
240	Manipulation of surface phonon polaritons in SiC nanorods. <i>Science Bulletin</i> , 2020 , 65, 820-826	10.6	11
239	Atomic scale insight into the fundamental mechanism of Mn doped LiFePO4. Sustainable Energy and Fuels, 2020 , 4, 2741-2751	5.8	1
238	Atomic origin of spin-valve magnetoresistance at the SrRuO grain boundary. <i>National Science Review</i> , 2020 , 7, 755-762	10.8	8
237	General Protocol for the Accurate Prediction of Molecular C/H NMR Chemical Shifts via Machine Learning Augmented DFT. <i>Journal of Chemical Information and Modeling</i> , 2020 , 60, 3746-3754	6.1	20
236	Interfacial modulation of spin pumping in YIG/Pt. Physical Review B, 2020, 102,	3.3	7
235	Unveiling the Fine Structural Distortion of Atomically Thin Bi O Se by Third-Harmonic Generation. <i>Advanced Materials</i> , 2020 , 32, e2002831	24	5
234	Quasi-2D Growth of Aluminum Nitride Film on Graphene for Boosting Deep Ultraviolet Light-Emitting Diodes. <i>Advanced Science</i> , 2020 , 7, 2001272	13.6	18
233	Challenges, myths, and opportunities of electron microscopy on halide perovskites. <i>Journal of Applied Physics</i> , 2020 , 128, 010901	2.5	21
232	Atomic-Scale insight into the reversibility of polar order in ultrathin epitaxial Nb:SrTiO3/BaTiO3 heterostructure and its implication to resistive switching. <i>Acta Materialia</i> , 2020 , 188, 23-29	8.4	9
231	Quantitative Analyses of the Interfacial Properties of Current Collectors at the Mesoscopic Level in Lithium Ion Batteries by Using Hierarchical Graphene. <i>Nano Letters</i> , 2020 , 20, 2175-2182	11.5	12
230	Metal-Based Nanocatalysts: Metal-Based Nanocatalysts via a Universal Design on Cellular Structure (Adv. Sci. 3/2020). <i>Advanced Science</i> , 2020 , 7, 2070013	13.6	2
229	Insight into the Structural Disorder in Honeycomb-Ordered Sodium-Layered Oxide Cathodes. <i>IScience</i> , 2020 , 23, 100898	6.1	10
228	Interlayer Decoupling in 30° Twisted Bilayer Graphene Quasicrystal. ACS Nano, 2020, 14, 1656-1664	16.7	31
227	Chiral Spin-Wave Velocities Induced by All-Garnet Interfacial Dzyaloshinskii-Moriya Interaction in Ultrathin Yttrium Iron Garnet Films. <i>Physical Review Letters</i> , 2020 , 124, 027203	7.4	36

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splitting. Journal of Materials Chemistry A, 2020, 8, 2453-2462

Selective doping to relax glassified grain boundaries substantially enhances the ionic conductivity

of LiTi2(PO4)3 glass-ceramic electrolytes. Journal of Power Sources, 2020, 449, 227574

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208	Inhomogeneous-strain-induced magnetic vortex cluster in one-dimensional manganite wire. <i>Science Bulletin</i> , 2020 , 65, 201-207	10.6	5
207	Thickness-Dependent In-Plane Polarization and Structural Phase Transition in van der Waals Ferroelectric CuInP S. <i>Small</i> , 2020 , 16, e1904529	11	22
206	Electronic-structure tuning of honeycomb layered oxide cathodes for superior performance. <i>Acta Materialia</i> , 2020 , 199, 34-41	8.4	3
205	Broad-Spectral-Range Sustainability and Controllable Excitation of Hyperbolic Phonon Polaritons in HMoO. <i>Advanced Materials</i> , 2020 , 32, e2002014	24	19
204	Nanocable with thick active intermediate layer for stable and high-areal-capacity sodium storage. <i>Nano Energy</i> , 2020 , 78, 105265	17.1	5
203	Accurate predictions of aqueous solubility of drug molecules via the multilevel graph convolutional network (MGCN) and SchNet architectures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 23766-23772	3.6	11
202	Stabilization of ferroelastic charged domain walls in self-assembled BiFeO3 nanoislands. <i>Journal of Applied Physics</i> , 2020 , 128, 124103	2.5	2
201	Eightfold fermionic excitation in a charge density wave compound. <i>Physical Review B</i> , 2020 , 102,	3.3	7
200	Atomic-environment-dependent thickness of ferroelastic domain walls near dislocations. <i>Acta Materialia</i> , 2020 , 188, 635-640	8.4	
199	Exploration of the Dehydrogenation Pathways of Ammonia Diborane and Diammoniate of Diborane by Molecular Dynamics Simulations Using Reactive Force Fields. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 1698-1704	2.8	14
198	Hyperbolic Phonon Polaritons: Broad-Spectral-Range Sustainability and Controllable Excitation of Hyperbolic Phonon Polaritons in \(\text{HoO3} \) (Adv. Mater. 46/2020). Advanced Materials, 2020 , 32, 2070347	24	
197	Unraveling atomic-scale lithiation mechanisms in a NiO thin film electrode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25198-25207	13	3
196	Toward Accurate Predictions of Atomic Properties via Quantum Mechanics Descriptors Augmented Graph Convolutional Neural Network: Application of This Novel Approach in NMR Chemical Shifts Predictions. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 9812-9818	6.4	6
195	Highly Conductive Nitrogen-Doped Vertically Oriented Graphene toward Versatile Electrode-Related Applications. <i>ACS Nano</i> , 2020 , 14, 15327-15335	16.7	13
194	Unveiling the microscopic origin of asymmetric phase transformations in (de)sodiated Sb2Se3 with in situ transmission electron microscopy. <i>Nano Energy</i> , 2020 , 77, 105299	17.1	5
193	Atomic-scale observations of electrical and mechanical manipulation of topological polar flux closure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 189	54 ⁻¹ 189	6 ² 3
192	Direct Observation of Li Migration into VS: Order to Antisite Disorder Intercalation Followed by the Topotactic-Based Conversion Reaction. <i>ACS Applied Materials & Disorder Interfaces</i> , 2020 , 12, 36320-36328	9.5	3
191	Nanopatterned Graphene: Direct Growth of Nanopatterned Graphene on Sapphire and Its Application in Light Emitting Diodes (Adv. Funct. Mater. 31/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070209	15.6	1

190	Role of the Exciton-Polariton in a Continuous-Wave Optically Pumped CsPbBr Perovskite Laser. <i>Nano Letters</i> , 2020 , 20, 6636-6643	11.5	62
189	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO6 Octahedra. <i>Advanced Functional Materials</i> , 2020 , 30, 2001984	15.6	5
188	A native oxide high-lgate dielectric for two-dimensional electronics. <i>Nature Electronics</i> , 2020 , 3, 473-478	28.4	58
187	Core-Shell FeSe /C Nanostructures Embedded in a Carbon Framework as a Free Standing Anode for a Sodium Ion Battery. <i>Small</i> , 2020 , 16, e2002200	11	26
186	Understanding the Dehydrogenation Pathways of Ammonium Octahydrotriborate (NH4B3H8) by Molecular Dynamics Simulations with the Reactive Force Field (ReaxFF). <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000139	3.5	7
185	In Situ Oxygen Doping of Monolayer MoS for Novel Electronics. <i>Small</i> , 2020 , 16, e2004276	11	21
184	Large-Scale Vertical 1T?/2H MoTe2 Nanosheet-Based Heterostructures for Low Contact Resistance Transistors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10411-10417	5.6	5
183	Giant pattern evolution in third-harmonic generation of strained monolayer WS2 at two-photon excitonic resonance. <i>Nano Research</i> , 2020 , 13, 3235-3240	10	2
182	Precursor-Mediated Linear- and Branched-Polytypism Control in Cuanna BelColloidal Nanocrystals Using a Dual-Injection Method. <i>Chemistry of Materials</i> , 2020 , 32, 7254-7262	9.6	1
181	Relaxation and transfer of photoexcited electrons at a coplanar few-layer 1 T?/2H-MoTe2 heterojunction. <i>Communications Materials</i> , 2020 , 1,	6	5
180	Palladium Single Atoms on TiO2 as a Photocatalytic Sensing Platform for Analyzing the Organophosphorus Pesticide Chlorpyrifos. <i>Angewandte Chemie</i> , 2020 , 132, 238-242	3.6	14
179	Palladium Single Atoms on TiO as a Photocatalytic Sensing Platform for Analyzing the Organophosphorus Pesticide Chlorpyrifos. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 232-236	16.4	46
178	Large-scale multiferroic complex oxide epitaxy with magnetically switched polarization enabled by solution processing. <i>National Science Review</i> , 2020 , 7, 84-91	10.8	11
177	Atomic imaging of mechanically induced topological transition of ferroelectric vortices. <i>Nature Communications</i> , 2020 , 11, 1840	17.4	24
176	Li-free Cathode Materials for High Energy Density Lithium Batteries. <i>Joule</i> , 2019 , 3, 2086-2102	27.8	123
175	Scaling-up Atomically Thin Coplanar Semiconductor-Metal Circuitry via Phase Engineered Chemical Assembly. <i>Nano Letters</i> , 2019 , 19, 6845-6852	11.5	26
174	Single-Crystal FeO with Engineered Exposed (001) Facet for High-Rate, Long-Cycle-Life Lithium-Ion Battery Anode. <i>Inorganic Chemistry</i> , 2019 , 58, 12724-12732	5.1	16
173	Strain-Inhibited Electromigration of Oxygen Vacancies in LaCoO. <i>ACS Applied Materials & Amp; Interfaces</i> , 2019 , 11, 36800-36806	9.5	12

-	172	Growth of 12-inch uniform monolayer graphene film on molten glass and its application in PbI2-based photodetector. <i>Nano Research</i> , 2019 , 12, 1888-1893	10	6
	171	Giant Electroresistance in Ferroionic Tunnel Junctions. <i>IScience</i> , 2019 , 16, 368-377	6.1	24
-	170	Atomic-level tunnel engineering of todorokite MnO2 for precise evaluation of lithium storage mechanisms by in situ transmission electron microscopy. <i>Nano Energy</i> , 2019 , 63, 103840	17.1	12
	169	Enhancement of Heat Dissipation in Ultraviolet Light-Emitting Diodes by a Vertically Oriented Graphene Nanowall Buffer Layer. <i>Advanced Materials</i> , 2019 , 31, e1901624	24	51
-	168	Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. <i>Nature</i> , 2019 , 570, 91-95	50.4	247
	167	Robust production of 2D quantum sheets from bulk layered materials. <i>Materials Horizons</i> , 2019 , 6, 1416	5-1 4.2 4	16
-	166	Study of damage generation induced by focused helium ion beam in silicon. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2019 , 37, 031804	1.3	10
	165	Atomic-scale structural and chemical evolution of Li3V2(PO4)3 cathode cycled at high voltage window. <i>Nano Research</i> , 2019 , 12, 1675-1681	10	5
-	164	In Situ Visualization of Interfacial Sodium Transport and Electrochemistry between Few-Layer Phosphorene. <i>Small Methods</i> , 2019 , 3, 1900061	12.8	10
	163	Towards super-clean graphene. <i>Nature Communications</i> , 2019 , 10, 1912	17.4	89
-	162	Current-controlled propagation of spin waves in antiparallel, coupled domains. <i>Nature Nanotechnology</i> , 2019 , 14, 691-697	28.7	43
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