

# Peng Wang

## 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.

235  
papers

10,079  
citations

49  
h-index

94  
g-index

247  
ext. papers

12,474  
ext. citations

9.7  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
235	Atomically Resolved Electrically Active Intragrain Interfaces in Perovskite Semiconductors.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	7
234	Anchoring Copper Single Atoms on Porous Boron Nitride Nanofiber to Boost Selective Reduction of Nitroaromatics.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	5
233	High-density switchable skyrmion-like polar nanodomains integrated on silicon.. <i>Nature</i> , <b>2022</b> , 603, 63-67	50.4	11
232	Reducing Contact Resistance and Boosting Device Performance of Monolayer MoS by In-Situ Fe Doping.. <i>Advanced Materials</i> , <b>2022</b> , e2200885	24	8
231	Non-invasive digital etching of van der Waals semiconductors.. <i>Nature Communications</i> , <b>2022</b> , 13, 1844	17.4	1
230	Two-Stage Assembly of Nanoparticle Superlattices with Multiscale Organization.. <i>Nano Letters</i> , <b>2022</b> ,	11.5	1
229	Uniform nucleation and epitaxy of bilayer molybdenum disulfide on sapphire.. <i>Nature</i> , <b>2022</b> , 605, 69-75	50.4	19
228	Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , <b>2022</b> , 376, 973-978	39.8	7
227	Shear-resistant interface of layered oxide cathodes for sodium ion batteries. <i>Energy Storage Materials</i> , <b>2021</b> , 45, 389-389	19.4	6
226	Metastable $\sqrt{3}\times\sqrt{3}$ CsPbI <sub>3</sub> Perovskite Nanocrystals Created Using Aged Orthorhombic CsPbBr <sub>3</sub> . <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 7109-7118	3.8	4
225	DNA origami single crystals with Wulff shapes. <i>Nature Communications</i> , <b>2021</b> , 12, 3011	17.4	7
224	Ultrasonic activation of inert poly(tetrafluoroethylene) enables piezocatalytic generation of reactive oxygen species. <i>Nature Communications</i> , <b>2021</b> , 12, 3508	17.4	33
223	Strengthening nitrogen affinity on CuAu@Cu core-shell nanoparticles with ultrathin Cu skin via strain engineering and ligand effect for boosting nitrogen reduction reaction. <i>Applied Catalysis B: Environmental</i> , <b>2021</b> , 288, 119999	21.8	15
222	Ptychographic Single Particle Analysis for Biological Science. <i>Microscopy and Microanalysis</i> , <b>2021</b> , 27, 190-192	0.5	
221	A general approach to realizing perovskite nanocrystals with insulating metal sulfate shells. <i>Nanoscale</i> , <b>2021</b> , 13, 10329-10334	7.7	5
220	Large-Area Freestanding Weyl Semimetal WTe <sub>2</sub> Membranes. <i>Chinese Physics Letters</i> , <b>2021</b> , 38, 017101	1.8	3
219	Epitaxial growth of wafer-scale molybdenum disulfide semiconductor single crystals on sapphire. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 1201-1207	28.7	75

218	Insights into the Enhanced Structural and Thermal Stabilities of Nb-Substituted Lithium-Rich Layered Oxide Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 45619-45629	9.5	3
217	Gate-tunable the interface properties of GaAs/Se <sub>2</sub> (1D/2D) vdWs heterojunction for high-responsivity, self-powered photodetector. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 041102	3.4	18
216	High-Performance CVD MoS <sub>2</sub> Transistors with Self-Aligned Top-Gate and Bi Contact <b>2021</b> ,		4
215	Electrochemical and Structural Analysis in All-Solid-State Lithium Batteries by Analytical Electron Microscopy: Progress and Perspectives. <i>Advanced Materials</i> , <b>2020</b> , 32, e1903747	24	14
214	Low Dose Electron Ptychography for Cryo-biological Imaging. <i>Microscopy and Microanalysis</i> , <b>2020</b> , 26, 1488-1490	0.5	
213	Aliovalent fluorine doping and anodization-induced amorphization enable bifunctional catalysts for efficient water splitting. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 10831-10838	13	15
212	Heteroepitaxial oxygen-buffering interface enables a highly stable cobalt-free Li-rich layered oxide cathode. <i>Nano Energy</i> , <b>2020</b> , 75, 104995	17.1	32
211	Low-dose phase retrieval of biological specimens using cryo-electron ptychography. <i>Nature Communications</i> , <b>2020</b> , 11, 2773	17.4	25
210	Preparation and characterization of a flexible ferroelectric tunnel junction. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 222904	3.4	5
209	Hollow Palladium-Gold Nanochains with Periodic Concave Structures as Superior ORR Electrocatalysts and Highly Efficient SERS Substrates. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 1904072	21.8	41
208	Strain engineering by atomic lattice locking in P2-type layered oxide cathode for high-voltage sodium-ion batteries. <i>Nano Energy</i> , <b>2020</b> , 76, 105061	17.1	10
207	Insight into the Structural Disorder in Honeycomb-Ordered Sodium-Layered Oxide Cathodes. <i>IScience</i> , <b>2020</b> , 23, 100898	6.1	10
206	Reviving reversible anion redox in 3d-transition-metal Li rich oxides by introducing surface defects. <i>Nano Energy</i> , <b>2020</b> , 71, 104644	17.1	13
205	Enhancement of tunneling electroresistance by interfacial cation intermixing in ferroelectric tunnel junctions. <i>Applied Surface Science</i> , <b>2020</b> , 512, 145707	6.7	3
204	Epitaxial optimization of atomically smooth Sr <sub>3</sub> Al <sub>2</sub> O <sub>6</sub> for freestanding perovskite films by molecular beam epitaxy. <i>Thin Solid Films</i> , <b>2020</b> , 697, 137815	2.2	11
203	Programmable Assembly of Nano-architectures through Designing Anisotropic DNA Origami Patches. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 6451-6458	3.6	4
202	Programmable Assembly of Nano-architectures through Designing Anisotropic DNA Origami Patches. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 6389-6396	16.4	15
201	Core-Shell Layered Oxide Cathode for High-Performance Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 7144-7152	9.5	20

200	A Superlattice-Stabilized Layered Oxide Cathode for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2020</b> , 32, e1907936	24	26
199	Achieving high structure and voltage stability in cobalt-free Li-rich layered oxide cathodes via selective dual-cation doping. <i>Energy Storage Materials</i> , <b>2020</b> , 32, 37-45	19.4	30
198	Anomalous Linear Layer-Dependent Blue Shift of Ultraviolet-Range Interband Transition in Two-Dimensional MoS <sub>2</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 1609-1616	3.8	1
197	Effect of Sodium Content on the Electrochemical Performance of Li-Substituted, Manganese-Based, Sodium-Ion Layered Oxide Cathodes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 2191-2198	9.5	8
196	A P2@Tunnel Heterostructure Cathode for High-Performance Sodium-Ion Batteries. <i>ChemElectroChem</i> , <b>2020</b> , 7, 4383-4389	4.3	1
195	Experimental and theoretical studies of the ternary thiophosphate PbPS featuring ethane-like [PS] units. <i>Dalton Transactions</i> , <b>2020</b> , 49, 17221-17229	4.3	1
194	Intercalation and hybrid heterostructure integration of two-dimensional atomic crystals with functional organic semiconductor molecules. <i>Nano Research</i> , <b>2020</b> , 13, 2917-2924	10	7
193	Optimization of oxygen vacancy concentration in HfO <sub>2</sub> /HfO <sub>x</sub> bilayer-structured ultrathin memristors by atomic layer deposition and their biological synaptic behavior. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 12478-12484	7.1	14
192	Integrating P2 into O <sub>3</sub> toward a robust Mn-Based layered cathode for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 23820-23826	13	5
191	Tuning strain effect and surface composition in PdAu hollow nanospheres as highly efficient ORR electrocatalysts and SERS substrates. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 262, 118298	21.8	42
190	Linear correlation between the c-axis lattice constant and superconducting critical temperature in FeSe <sub>0.5</sub> Te <sub>0.5</sub> thin films. <i>Materials Research Express</i> , <b>2020</b> , 7, 046002	1.7	4
189	Developing Multifunctional and High Resolution In-situ TEM Holders. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1854-1855	0.5	
188	3D Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 1802-1803	0.5	2
187	Dandelion-like Mn/Ni Co-doped CoO/C Hollow Microspheres with Oxygen Vacancies for Advanced Lithium Storage. <i>ACS Nano</i> , <b>2019</b> , 13, 11921-11934	16.7	74
186	Magnetic Semiconductor Gd-Doping CuS Nanoparticles as Activatable Nanoprobes for Bimodal Imaging and Targeted Photothermal Therapy of Gastric Tumors. <i>Nano Letters</i> , <b>2019</b> , 19, 937-947	11.5	87
185	Understanding the role of aluminium in determining the surface structure and electrochemical performance of layered cathodes. <i>Nanoscale</i> , <b>2019</b> , 11, 13007-13016	7.7	3
184	Thickness-Dependent Asymmetric Potential Landscape and Polarization Relaxation in Ferroelectric HfxZr1-xO2 Thin Films through Interfacial Bound Charges. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900554	6.4	8
183	Freestanding crystalline oxide perovskites down to the monolayer limit. <i>Nature</i> , <b>2019</b> , 570, 87-90	50.4	206

182	A Flexible Film toward High-Performance Lithium Storage: Designing Nanosheet-Assembled Hollow Single-Hole Ni-Co-Mn-O Spheres with Oxygen Vacancy Embedded in 3D Carbon Nanotube/Graphene Network. <i>Small</i> , <b>2019</b> , 15, e1901343	11	17
181	Manganese-Based Na-Rich Materials Boost Anionic Redox in High-Performance Layered Cathodes for Sodium-Ion Batteries. <i>Advanced Materials</i> , <b>2019</b> , 31, e1807770	24	72
180	Towards rational design of high performance Ni-rich layered oxide cathodes: The interplay of borate-doping and excess lithium. <i>Journal of Power Sources</i> , <b>2019</b> , 431, 40-47	8.9	19
179	Epitaxial growth of bronze phase titanium dioxide by molecular beam epitaxy. <i>AIP Advances</i> , <b>2019</b> , 9, 035230	1.5	2
178	An example of high-T, high-symmetry crystallization: Spherical (Mg,Fe)-oxides formed by particle attachment in the shocked martian meteorite Northwest Africa 7755. <i>American Mineralogist</i> , <b>2019</b> , 104, 150-157	2.9	2
177	Atomic Resolution Defocused Electron Ptychography at Low Dose with a Fast, Direct Electron Detector. <i>Scientific Reports</i> , <b>2019</b> , 9, 3919	4.9	25
176	The simplest construction of single-site catalysts by the synergism of micropore trapping and nitrogen anchoring. <i>Nature Communications</i> , <b>2019</b> , 10, 1657	17.4	144
175	Capturing Reversible Cation Migration in Layered Structure Materials for Na-Ion Batteries. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1900189	21.8	29
174	e occupancy as an effective descriptor for the catalytic activity of perovskite oxide-based peroxidase mimics. <i>Nature Communications</i> , <b>2019</b> , 10, 704	17.4	112
173	Electrical conduction mechanisms and effect of atmosphere annealing on the electrical properties of BiFeO <sub>3</sub> -BaTiO <sub>3</sub> ceramics. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 4727-4734	6	13
172	Interface electron transfer and thickness dependent transport characteristics of LaSrVO thin films. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 245002	1.8	
171	Monodispersed Pt <sub>3</sub> Ni Nanoparticles as a Highly Efficient Electrocatalyst for PEMFCs. <i>Catalysts</i> , <b>2019</b> , 9, 588	4	6
170	Carbon Quantum Dots Modulated NiMoP Hollow Nanopetals as Efficient Electrocatalysts for Hydrogen Evolution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14098-14105	3.9	29
169	Electron ptychography using an ultrafast direct electron detector. <i>Microscopy and Microanalysis</i> , <b>2019</b> , 25, 20-21	0.5	0
168	Strain-driven lattice distortion and the resultant magnetic properties of La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> /BaTiO <sub>3</sub> superlattices. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 201604	3.4	3
167	Highly crystalline ReSe <sub>2</sub> atomic layers synthesized by chemical vapor transport. <i>Informa Materly</i> , <b>2019</b> , 1, 552-558	23.1	17
166	Mechanism of Alkali Metal Compound-Promoted Growth of Monolayer MoS <sub>2</sub> : Eutectic Intermediates. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 873-880	9.6	39
165	Fabrication of highly emissive and highly stable perovskite nanocrystal-polymer slabs for luminescent solar concentrators. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 4872-4880	13	30

164	Superior-capacity binder-free anode electrode for lithium-ion batteries: CoMnNiO nanosheets with metal/oxygen vacancies directly formed on Cu foil. <i>Nanoscale</i> , <b>2019</b> , 11, 5080-5093	7.7	13
163	A facile method for precise layer number identification of two-dimensional materials through optical images. <i>Optics Communications</i> , <b>2019</b> , 440, 21-25	2	3
162	Mott insulator to metal transition driven by oxygen incorporation in epitaxial LaTiO <sub>3</sub> films. <i>Applied Physics Letters</i> , <b>2019</b> , 115, 261604	3.4	8
161	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , <b>2019</b> , 10, 5589	17.4	36
160	Uniform and ultrathin high- $\kappa$ gate dielectrics for two-dimensional electronic devices. <i>Nature Electronics</i> , <b>2019</b> , 2, 563-571	28.4	93
159	Revealing the Critical Role of Titanium in Layered Manganese-Based Oxides toward Advanced Sodium-Ion Batteries via a Combined Experimental and Theoretical Study. <i>Small Methods</i> , <b>2019</b> , 3, 1800183	12.8	20
158	Vertically Grown Few-Layer MoS Nanosheets on Hierarchical Carbon Nanocages for Pseudocapacitive Lithium Storage with Ultrahigh-Rate Capability and Long-Term Recyclability. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 3843-3848	4.8	8
157	Engineering Nanocerria for Enhanced Peroxidase Mimics: A Solid Solution Strategy. <i>ChemCatChem</i> , <b>2019</b> , 11, 737-743	5.2	22
156	Surface Engineering of CoMoS Nanosulfide for Hydrodeoxygenation of Lignin-Derived Phenols to Arenes. <i>ACS Catalysis</i> , <b>2019</b> , 9, 259-268	13.1	49
155	Stable heteroepitaxial interface of Li-rich layered oxide cathodes with enhanced lithium storage. <i>Energy Storage Materials</i> , <b>2019</b> , 21, 69-76	19.4	33
154	Hierarchical sulfur and nitrogen co-doped carbon nanocages as efficient bifunctional oxygen electrocatalysts for rechargeable Zn-air battery. <i>Journal of Energy Chemistry</i> , <b>2019</b> , 34, 64-71	12	50
153	Antiferromagnetic Order in Epitaxial FeSe Films on SrTiO <sub>3</sub> . <i>Physical Review Letters</i> , <b>2018</b> , 120, 097001	17.4	22
152	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> , <b>2018</b> , 115, 2902-2907	11.5	156
151	Stacking-mode confined growth of 2H-MoTe <sub>2</sub> /MoS <sub>2</sub> bilayer heterostructures for UV-Vis-IR photodetectors. <i>Nano Energy</i> , <b>2018</b> , 49, 200-208	17.1	65
150	Highly Durable and Active Ternary PtAuNi Electrocatalyst for Oxygen Reduction Reaction. <i>ChemCatChem</i> , <b>2018</b> , 10, 3049-3056	5.2	16
149	Robust memristors based on layered two-dimensional materials. <i>Nature Electronics</i> , <b>2018</b> , 1, 130-136	28.4	348
148	Compact Plasmonic Blackbody for Cancer Theranosis in the Near-Infrared II Window. <i>ACS Nano</i> , <b>2018</b> , 12, 2643-2651	16.7	209
147	Synthesis of CrO <sub>2</sub> /C catalysts for low temperature NH <sub>3</sub> -SCR with enhanced regeneration ability in the presence of SO <sub>2</sub> . <i>RSC Advances</i> , <b>2018</b> , 8, 3858-3868	3.7	16

146	Gate-Induced Interfacial Superconductivity in 1T-SnSe. <i>Nano Letters</i> , <b>2018</b> , 18, 1410-1415	11.5	54
145	Rational design of electrocatalysts for simultaneously promoting bulk charge separation and surface charge transfer in solar water splitting photoelectrodes. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 2568-2576	13	35
144	Mesoporous Ce-Ti-Zr ternary oxide millispheres for efficient catalytic ozonation in bubble column. <i>Chemical Engineering Journal</i> , <b>2018</b> , 338, 261-270	14.7	35
143	Unlocking the potential of graphene for water oxidation using an orbital hybridization strategy. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 407-416	35.4	35
142	Direct Demonstration of the Emergent Magnetism Resulting from the Multivalence Mn in a LaMnO <sub>3</sub> Epitaxial Thin Film System. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800055	6.4	19
141	Combination of transition metal Rh-catalysis and tautomeric catalysis through a bi-functional ligand for one-pot tandem methoxycarbonylation-aminolysis of olefins towards primary amides. <i>Journal of Catalysis</i> , <b>2018</b> , 361, 230-237	7.3	1
140	Synthesis of synergetic phosphorus and cyano groups ( C N) modified g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production and CO <sub>2</sub> reduction under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 232, 521-530	21.8	114
139	Polarized Optoelectronics of CsPbX <sub>3</sub> (X = Cl, Br, I) Perovskite Nanoplates with Tunable Size and Thickness. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1800283	15.6	47
138	Roles of Coherent Interfaces on Electrochemical Performance of Sodium Layered Oxide Cathodes. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 4728-4737	9.6	20
137	SbSI Nanocrystals: An Excellent Visible Light Photocatalyst with Efficient Generation of Singlet Oxygen. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 12166-12175	8.3	18
136	A phase-transition-free cathode for sodium-ion batteries with ultralong cycle life. <i>Nano Energy</i> , <b>2018</b> , 52, 88-94	17.1	36
135	Development of in situ optical-electrical MEMS platform for semiconductor characterization. <i>Ultramicroscopy</i> , <b>2018</b> , 194, 57-63	3.1	2
134	Atomic Characterization of Byproduct Nanoparticles on Cesium Lead Halide Nanocrystals Using High-Resolution Scanning Transmission Electron Microscopy. <i>Crystals</i> , <b>2018</b> , 8, 2	2.3	19
133	Fast and Low-dose Electron Ptychography. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 224-225	0.5	2
132	Ferroelectric Polarization-Modulated Interfacial Fine Structures Involving Two-Dimensional Electron Gases in Pb(Zr,Ti)O/LaAlO/SrTiO Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1374-1382	9.5	10
131	Nanoporous Zn-doped Co <sub>3</sub> O <sub>4</sub> sheets with single-unit-cell-wide lateral surfaces for efficient oxygen evolution and water splitting. <i>Nano Energy</i> , <b>2018</b> , 44, 371-377	17.1	111
130	Tailoring alternating heteroepitaxial nanostructures in Na-ion layered oxide cathodes via an in-situ composition modulation route. <i>Nano Energy</i> , <b>2018</b> , 44, 336-344	17.1	26
129	Improving the Electrochemical Properties of the Manganese-Based P3 Phase by Multiphasic Intergrowth. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 15584-15591	5.1	12

128	Hollow Electron Ptychographic Diffractive Imaging. <i>Physical Review Letters</i> , <b>2018</b> , 121, 146101	7.4	14
127	Low Dose Defocused Probe Electron Ptychography Using a Fast Direct Electron Detector. <i>Microscopy and Microanalysis</i> , <b>2018</b> , 24, 186-187	0.5	3
126	Enhancing the Structural Stability of Ni-Rich Layered Oxide Cathodes with a Preformed Zr-Concentrated Defective Nanolayer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 39599-39607	9.5	53
125	Achieving high thermoelectric performance with Pb and Zn codoped polycrystalline SnSe via phase separation and nanostructuring strategies. <i>Nano Energy</i> , <b>2018</b> , 53, 683-689	17.1	68
124	Nitrogen-Doped CoP Electrocatalysts for Coupled Hydrogen Evolution and Sulfur Generation with Low Energy Consumption. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800140	24	224
123	Layer-Dependent Chemically Induced Phase Transition of Two-Dimensional MoS. <i>Nano Letters</i> , <b>2018</b> , 18, 3435-3440	11.5	50
122	Lithiation-induced amorphization of Pd <sub>3</sub> P <sub>2</sub> S <sub>8</sub> for highly efficient hydrogen evolution. <i>Nature Catalysis</i> , <b>2018</b> , 1, 460-468	36.5	153
121	Efficient and recyclable Rh-catalytic system with involvement of phosphine-functionalized phosphonium-based ionic liquids for tandem hydroformylation-catalization. <i>Green Energy and Environment</i> , <b>2017</b> , 2, 419-427	5.7	15
120	Iron oxide nanoparticles confined in mesoporous silicates for arsenic sequestration: effect of the host pore structure. <i>Environmental Science: Nano</i> , <b>2017</b> , 4, 679-688	7.1	24
119	High-Mobility Multilayered MoS Flakes with Low Contact Resistance Grown by Chemical Vapor Deposition. <i>Advanced Materials</i> , <b>2017</b> , 29, 1604540	24	153
118	Two-Dimensional Semiconductors Grown by Chemical Vapor Transport. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3611-3615	16.4	56
117	Biological Uptake, Distribution, and Depuration of Radio-Labeled Graphene in Adult Zebrafish: Effects of Graphene Size and Natural Organic Matter. <i>ACS Nano</i> , <b>2017</b> , 11, 2872-2885	16.7	66
116	Patterning the two dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface by structured Al capping. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 141603	3.4	8
115	Electroplating lithium transition metal oxides. <i>Science Advances</i> , <b>2017</b> , 3, e1602427	14.3	45
114	High-resolution characterization of multiferroic heterojunction using aberration-corrected scanning transmission electron microscopy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 171602	3.4	8
113	Ferrous sulfide-assisted hollow carbon spheres as sulfur host for advanced lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 1040-1047	14.7	19
112	Intrinsic ferromagnetism and quantum transport transition in individual Fe-doped BiSe topological insulator nanowires. <i>Nanoscale</i> , <b>2017</b> , 9, 12372-12378	7.7	16
111	Surface-Enhanced Raman Scattering Active Gold Nanoparticles with Enzyme-Mimicking Activities for Measuring Glucose and Lactate in Living Tissues. <i>ACS Nano</i> , <b>2017</b> , 11, 5558-5566	16.7	383



110	Revealing chemical processes and kinetics of drug action within single living cells via plasmonic Raman probes. <i>Scientific Reports</i> , <b>2017</b> , 7, 2296	4.9	8
109	Understanding the Enhanced Kinetics of Gradient-Chemical-Doped Lithium-Rich Cathode Material. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20519-20526	9.5	33
108	Engineering hetero-epitaxial nanostructures with aligned Li-ion channels in Li-rich layered oxides for high-performance cathode application. <i>Nano Energy</i> , <b>2017</b> , 35, 271-280	17.1	78
107	Surface passivation of mixed-halide perovskite CsPb(BrI) nanocrystals by selective etching for improved stability. <i>Nanoscale</i> , <b>2017</b> , 9, 7391-7396	7.7	58
106	Atomic interpretation of high activity on transition metal and nitrogen-doped carbon nanofibers for catalyzing oxygen reduction. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 3336-3345	13	67
105	Reactive molecular beam epitaxial growth and in situ photoemission spectroscopy study of iridate superlattices. <i>AIP Advances</i> , <b>2017</b> , 7, 085307	1.5	2
104	Tuning the transport behavior of centimeter-scale WTe <sub>2</sub> ultrathin films fabricated by pulsed laser deposition. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 031906	3.4	29
103	Repairing atomic vacancies in single-layer MoSe <sub>2</sub> field-effect transistor and its defect dynamics. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	27
102	Electron ptychographic microscopy for three-dimensional imaging. <i>Nature Communications</i> , <b>2017</b> , 8, 16317.4	17.4	57
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95	Synthesis of hierarchical and bridging carbon-coated LiMn <sub>0.9</sub> Fe <sub>0.1</sub> PO <sub>4</sub> nanostructure as cathode material with improved performance for lithium ion battery. <i>Journal of Power Sources</i> , <b>2017</b> , 359, 408-414	8.9	21
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92	Study of Microstructure Change of Carbon Nanofibers as Binder-Free Anode for High-Performance Lithium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 33091-33101	9.5	40
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89	The Effect of Boron Doping on Structure and Electrochemical Performance of Lithium-Rich Layered Oxide Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 18008-17	9.5	45
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82	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. <i>Nano Letters</i> , <b>2016</b> , 16, 2254-9	11.5	248
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56	Investigating the volume change characteristics of bentonite/sand mixture under hydro-mechanical coupling condition <b>2015</b> , 223-228		
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2	Gram-Scale Synthesized Two-Dimensional VSe <sub>2</sub> and SnSe <sub>2</sub> for Ultrahigh Electrocatalytic Sulfion Recycling. <i>Advanced Materials Interfaces</i> , 2200060	4.6	2
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