Ruqiang Zou

List of Publications by Year in Descending Order

341 papers	22,782 citations	76 h-index	142 g-index
367 ext. papers	27,868 ext. citations	10.7 avg, IF	7.72 L-index

#	Paper	IF	Citations
341	Antiperovskite Electrolytes for Solid-State Batteries.. *Chemical Reviews*, **2022**,	68.1	18
340	Insights into Antiperovskite Ni In Cu N Multi-Crystalline Nanoplates and Bulk Cubic Particles as Efficient Electrocatalysts on Hydrogen Evolution Reaction.. *Small*, **2022**, e2105906	11	0
339	Nickel-based bimetallic battery-type materials for asymmetric supercapacitors. *Coordination Chemistry Reviews*, **2022**, 451, 214242	23.2	14
338	Hierarchically porous metal hydroxide/metal-organic framework composite nanoarchitectures as broad-spectrum adsorbents for toxic chemical filtration. *Journal of Colloid and Interface Science*, **2022**, 606, 272-285	9.3	2
337	Vertical Graphene-Reinforced Titanium Alloy Bipolar Plates in Fuel Cells.. *Advanced Materials*, **2022**, e2110565	24	2
336	Giant Viscoelasticity near Mott Criticality in PbCrO_{3} with Large Lattice Anomalies.. *Physical Review Letters*, **2022**, 128, 095702	7.4	0
335	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-Based Electrolyte (Adv. Mater. 13/2022). *Advanced Materials*, **2022**, 34, 2270101	24	
334	High-efficiency capture of ammonia using hierarchically porous Zr-MOF nanoarchitectures under ambient conditions: Thermodynamics, kinetics, and mechanisms. *Chemical Engineering Journal*, **2022**, 440, 135764	14.7	0
333	Pressure-induced polymerization and bandgap-adjustment of TPEPA.. *RSC Advances*, **2022**, 12, 11996-12001	3.9	1
332	Concurrent Pressure-Induced Spin-State Transitions and Jahn□Teller Distortions in MnTe. *Chemistry of Materials*, **2022**, 34, 3931-3940	9.6	1
331	Pressure-Induced Hydrogen Transfer in 2-Butyne via a Double CH□□□Aromatic Transition State.. *Journal of Physical Chemistry Letters*, **2022**, 4170-4175	6.4	
330	Strengthening Superhard Materials by Nanostructure Engineering. *Journal of Superhard Materials*, **2021**, 43, 307-329	0.9	0
329	Enhanced Adsorption and Mass Transfer of Hierarchically Porous Zr-MOF Nanoarchitectures toward Toxic Chemical Removal. *ACS Applied Materials & Interfaces*, **2021**,	9.5	2
328	Stretchable Zn-Ion Hybrid Battery with Reconfigurable V2CTx and Ti3C2Tx MXene Electrodes as a Magnetically Actuated Soft Robot. *Advanced Energy Materials*, **2021**, 11, 2101862	21.8	4
327	Fragile Pressure-Induced Magnetism in FeSe Superconductors with a Thickness Reduction. *Nano Letters*, **2021**, 21, 9310-9317	11.5	2
326	Operation of large-volume cubic press above 8 GPa and 2500□C with a centimeter-sized cell volume using an optimized hybrid assembly. *High Pressure Research*, **2021**, 41, 132-141	1.6	0
325	Enhanced Hardness in Transition-Metal Monocarbides via Optimal Occupancy of Bonding Orbitals. *ACS Applied Materials & Interfaces*, **2021**, 13, 14365-14376	9.5	3

324	From Micropores to Ultra-micropores inside Hard Carbon: Toward Enhanced Capacity in Room-/Low-Temperature Sodium-Ion Storage. *Nano-Micro Letters*, **2021**, 13, 98	19.5	11
323	Calibration of Manganin pressure gauge for diamond-anvil cells. *Review of Scientific Instruments*, **2021**, 92, 033905	1.7	1
322	A Metal-Organic Framework Nanorod-Assembled Superstructure and Its Derivative: Unraveling the Fast Potassium Storage Mechanism in Nitrogen-Modified Micropores. *Small*, **2021**, 17, e2100135	11	4
321	Pressure Controls the Structure and Nonlinear Optical Properties of Piezochromic CdTeMoO6. *Chemistry of Materials*, **2021**, 33, 2929-2936	9.6	5
320	Mechanochemical synthesis of Li2OHI with enhanced lithium ionic conductivity. *Functional Materials Letters*, **2021**, 14, 2150012	1.2	
319	Strain-driven structural selection and amorphization during first-order phase transitions in nanocrystalline Ho2O3 under pressure. *Physical Review B*, **2021**, 103,	3.3	1
318	Carbon-based nonprecious metal electrocatalysts derived from MOFs for oxygen-reduction reaction. *International Journal of Energy Research*, **2021**, 45, 15676-15738	4.5	5
317	Composite polymer electrolytes with uniform distribution of ionic liquid-grafted ZIF-90 nanofillers for high-performance solid-state Li batteries. *Chemical Engineering Journal*, **2021**, 412, 128733	14.7	24
316	Rationalized atomic/clusters dispersion of Fe/Se/Al on interconnected N-doped carbon nanofibers for fast sodiation. *Chemical Engineering Journal*, **2021**, 411, 128420	14.7	2
315	Advanced Transition Metal-Based OER Electrocatalysts: Current Status, Opportunities, and Challenges. *Small*, **2021**, 17, e2100129	11	58
314	In situ/operando vibrational spectroscopy for the investigation of advanced nanostructured electrocatalysts. *Coordination Chemistry Reviews*, **2021**, 436, 213824	23.2	10
313	Lithium-Rich Anti-perovskite LiOHBr-Based Polymer Electrolytes Enabling an Improved Interfacial Stability with a Three-Dimensional-Structured Lithium Metal Anode in All-Solid-State Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 28108-28117	9.5	4
312	Sound Velocities, Elasticity, and Mechanical Properties of Stoichiometric Submicron Polycrystalline □-MoN at High Pressure. *Inorganic Chemistry*, **2021**, 60, 11897-11906	5.1	0
311	Fluorine-tuned single-atom catalysts with dense surface Ni-N4 sites on ultrathin carbon nanosheets for efficient CO2 electroreduction. *Applied Catalysis B: Environmental*, **2021**, 283, 119591	21.8	50
310	Metal□Organic Framework Derived Bimetallic Materials for Electrochemical Energy Storage. *Angewandte Chemie*, **2021**, 133, 11148-11167	3.6	3
309	Covalent organic framework-based materials for energy applications. *Energy and Environmental Science*, **2021**, 14, 688-728	35.4	62
308	Copper Sulfide Nanodisk-Doped Solid-Solid Phase Change Materials for Full Spectrum Solar-Thermal Energy Harvesting and Storage. *ACS Applied Materials & Interfaces*, **2021**, 13, 1377-1385	9.5	20
307	Pristine Hollow Metal-Organic Frameworks: Design, Synthesis and Application. *Angewandte Chemie - International Edition*, **2021**, 60, 17314-17336	16.4	39

306	Pristine Hollow Metal–Organic Frameworks: Design, Synthesis and Application. *Angewandte Chemie*, **2021**, 133, 17455-17477	3.6	6
305	Metal-Organic Framework Derived Bimetallic Materials for Electrochemical Energy Storage. *Angewandte Chemie - International Edition*, **2021**, 60, 11048-11067	16.4	63
304	The microwave absorption properties of Y2Fe16Si@MOF and Y2Fe16Si@GO composites. *AIP Advances*, **2021**, 11, 015237	1.5	5
303	Understanding the lattice nitrogen stability and deactivation pathways of cubic CrN nanoparticles in the electrochemical nitrogen reduction reaction. *Journal of Materials Chemistry A*, **2021**, 9, 8568-8575	13	3
302	Antiperovskite Ionic Conductor Layer for Stabilizing the Interface of NASICON Solid Electrolyte Against Li Metal in All-Solid-State Batteries**. *Batteries and Supercaps*, **2021**, 4, 1491-1498	5.6	4
301	Stabilization of NASICON-Type Electrolyte against Li Anode via an Ionic Conductive MOF-Incorporated Adhesive Interlayer. *ACS Energy Letters*, **2021**, 6, 3141-3150	20.1	8
300	Atomically Thin Bilayer Janus Membranes for Cryo-electron Microscopy. *ACS Nano*, **2021**, 15, 16562-16571	16.7	2
299	Electrolyte solutions design for lithium-sulfur batteries. *Joule*, **2021**, 5, 2323-2364	27.8	38
298	Regulating the lithium metal growth by Li3BO3/Li2OHCl solid-state electrolyte for long-lasting lithium metal stripping-plating. *Journal of Power Sources*, **2021**, 507, 230299	8.9	1
297	Flexible phase change materials for thermal energy storage. *Energy Storage Materials*, **2021**, 41, 321-342	19.4	27
296	Conductive metal-organic frameworks for electrochemical energy conversion and storage. *Coordination Chemistry Reviews*, **2021**, 446, 214119	23.2	19
295	Inhibition of Manganese Dissolution in Mn2O3 Cathode with Controllable Ni2+ Incorporation for High-Performance Zinc Ion Battery. *Advanced Functional Materials*, **2021**, 31, 2009412	15.6	54
294	Cryo-Electron Tomography of Highly Deformable and Adherent Solid-Electrolyte Interphase Exoskeleton in Li-Metal Batteries with Ether-based Electrolyte. *Advanced Materials*, **2021**, e2108252	24	5
293	Optimized Interfaces in Anti-Perovskite Electrolyte-Based Solid-State Lithium Metal Batteries for Enhanced Performance.. *Frontiers in Chemistry*, **2021**, 9, 786956	5	0
292	Puffing Up Hollow Carbon Nanofibers with High-Energy Metal-Organic Frameworks for Capacitive-Dominated Potassium-Ion Storage. *Small*, **2021**, e2105767	11	2
291	Three-dimensional visualization of lithium metal anode via low-dose cryogenic electron microscopy tomography. *IScience*, **2021**, 24, 103418	6.1	2
290	Stretchable Zn-Ion Hybrid Battery with Reconfigurable V 2 CT x and Ti 3 C 2 T x MXene Electrodes as a Magnetically Actuated Soft Robot (Adv. Energy Mater. 45/2021). *Advanced Energy Materials*, **2021**, 11, 2170179	21.8	0
289	Metal–Organic frameworks for solid-state electrolytes. *Energy and Environmental Science*, **2020**, 13, 2386-2403	35.4	71

288	Europium-Doped Ceria Nanowires as Anode for Solid Oxide Fuel Cells. *Frontiers in Chemistry*, **2020**, 8, 348	5	7
287	Bandgap widening by pressure-induced disorder in two-dimensional lead halide perovskite. *Applied Physics Letters*, **2020**, 116, 101901	3.4	6
286	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. *Angewandte Chemie*, **2020**, 132, 7454-7459	3.6	45
285	Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction. *Angewandte Chemie - International Edition*, **2020**, 59, 7384-7389	16.4	134
284	Metal-organic framework-derived Fe/Cu-substituted Co nanoparticles embedded in CNTs-grafted carbon polyhedron for Zn-air batteries **2020**, 2, 283-293		46
283	Double-Solvent Induced Ultrafine Ruthenium Nanoparticles on Porous Carbon for Highly Efficient Hydrogen Evolution Reaction. *ChemCatChem*, **2020**, 12, 2880-2885	5.2	3
282	Compressibility and thermoelasticity of CrN. *High Pressure Research*, **2020**, 40, 423-433	1.6	
281	Probing the continuum scattering and magnetic collapse in single-crystalline □i2IrO3 by Raman spectroscopy. *Physical Review B*, **2020**, 101,	3.3	2
280	Strain stiffening, high load-invariant hardness, and electronic anomalies of boron phosphide under pressure. *Physical Review B*, **2020**, 101,	3.3	14
279	A Robust Aluminum Metal-Organic Framework with Temperature-Induced Breathing Effect **2020**, 2, 220-226		5
278	Enhanced Structural Stability of Sb2Se3 via Pressure-Induced Alloying and Amorphization. *Journal of Physical Chemistry C*, **2020**, 124, 3421-3428	3.8	4
277	Fabrication of Oxygen-Vacancy Abundant NiMn-Layered Double Hydroxides for Ultrahigh Capacity Supercapacitors. *Advanced Functional Materials*, **2020**, 30, 1908223	15.6	85
276	Metal□rganic framework-derived mesoporous carbon nanoframes embedded with atomically dispersed Fe□ active sites for efficient bifunctional oxygen and carbon dioxide electroreduction. *Applied Catalysis B: Environmental*, **2020**, 267, 118720	21.8	78
275	Large-volume cubic press produces high temperatures above 4000 Kelvin for study of the refractory materials at pressures. *Review of Scientific Instruments*, **2020**, 91, 015118	1.7	8
274	Self-Regulated Phenomenon of Inorganic Artificial Solid Electrolyte Interphase for Lithium Metal Batteries. *Nano Letters*, **2020**, 20, 4029-4037	11.5	47
273	Metal-Organic Framework-Based Catalysts with Single Metal Sites. *Chemical Reviews*, **2020**, 120, 12089-12174	68.1	291
272	Titelbild: Single-Atom Iron Catalysts on Overhang-Eave Carbon Cages for High-Performance Oxygen Reduction Reaction (Angew. Chem. 19/2020). *Angewandte Chemie*, **2020**, 132, 7341-7341	3.6	
271	Neutron diffraction study of crystal structure and temperature driven molecular reorientation in solid □CO. *AIP Advances*, **2020**, 10, 045301	1.5	2

270	Growth of Millimeter Size B6O Single Crystals in a B-H3BO3 System at High Pressure and High Temperature. *Crystal Growth and Design*, **2020**, 20, 3732-3736	3.5	2
269	Unraveling microstrain-promoted structural evolution and thermally driven phase transition in c□c2O3 nanocrystals at high pressure. *Physical Review B*, **2020**, 102,	3.3	1
268	Metal-organic frameworks for electrochemical energy conversion: status and challenges. *Science China Chemistry*, **2020**, 63, 7-10	7.9	11
267	Designing Advanced Catalysts for Energy Conversion Based on Urea Oxidation Reaction. *Small*, **2020**, 16, e1906133	11	118
266	Metal□Organic Framework-Based Materials for Energy Conversion and Storage. *ACS Energy Letters*, **2020**, 5, 520-532	20.1	149
265	Facile preparation of flexible eicosane/SWCNTs phase change films via colloid aggregation for thermal energy storage. *Applied Energy*, **2020**, 260, 114320	10.7	15
264	Antiperovskite Intermetallic Nanoparticles for Enhanced Oxygen Reduction. *Angewandte Chemie - International Edition*, **2020**, 59, 1871-1877	16.4	22
263	Engineering Frenkel defects of anti-perovskite solid-state electrolytes and their applications in all-solid-state lithium-ion batteries. *Chemical Communications*, **2020**, 56, 1251-1254	5.8	18
262	Antiperovskites with Exceptional Functionalities. *Advanced Materials*, **2020**, 32, e1905007	24	40
261	Fabrication of Hollow CoP/TiO Heterostructures for Enhanced Oxygen Evolution Reaction. *Small*, **2020**, 16, e1905075	11	67
260	Solid-solution alloy nanoclusters of the immiscible gold-rhodium system achieved by a solid ligand-assisted approach for highly efficient catalysis. *Nano Research*, **2020**, 13, 105-111	10	10
259	Atomic Fe-N4 sites on electrospun hierarchical porous carbon nanofibers as an efficient electrocatalyst for oxygen reduction reaction. *Chinese Chemical Letters*, **2020**, 31, 1588-1592	8.1	17
258	Metal-organic framework-based materials for hybrid supercapacitor application. *Coordination Chemistry Reviews*, **2020**, 404, 213093	23.2	155
257	Antiperovskite Intermetallic Nanoparticles for Enhanced Oxygen Reduction. *Angewandte Chemie*, **2020**, 132, 1887-1893	3.6	4
256	Isosymmetric phase transitions, ultrahigh ductility, and topological nodal lines in A□g2S. *Physical Review B*, **2020**, 102,	3.3	1
255	Mechanism of enhanced ionic conductivity by rotational nitrite group in antiperovskite Na3ONO2. *Journal of Materials Chemistry A*, **2020**, 8, 21265-21272	13	11
254	Local Structural Changes and Inductive Effects on Ion Conduction in Antiperovskite Solid Electrolytes. *Chemistry of Materials*, **2020**, 32, 8827-8835	9.6	8
253	NiMn-Layered Double Hydroxides Chemically Anchored on Ti3C2 MXene for Superior Lithium Ion Storage. *ACS Applied Energy Materials*, **2020**, 3, 11119-11130	6.1	21

252	Highly efficient solar-thermal storage coating based on phosphorene encapsulated phase change materials. *Energy Storage Materials*, **2020**, 32, 199-207	19.4	32
251	Pressure-Dependent Intermediate Magnetic Phase in Thin FeGeTe Flakes. *Journal of Physical Chemistry Letters*, **2020**, 11, 7313-7319	6.4	9
250	NO2 Removal under Ambient Conditions by Nanoporous Multivariate Zirconium-Based Metal□Organic Framework. *ACS Applied Nano Materials*, **2020**, 3, 11442-11454	5.6	8
249	Tuning the flexibility and thermal storage capacity of solid□solid phase change materials towards wearable applications. *Journal of Materials Chemistry A*, **2020**, 8, 20133-20140	13	51
248	Engineering the Thermal Conductivity of Functional Phase-Change Materials for Heat Energy Conversion, Storage, and Utilization. *Advanced Functional Materials*, **2020**, 30, 1904228	15.6	94
247	Flame-retardancy and thermal properties of a novel phosphorus-modified PCM for thermal energy storage. *Chemical Engineering Journal*, **2020**, 380, 122500	14.7	34
246	Vanadium-Based Oxide on Two-Dimensional Vanadium Carbide MXene (V2Ox@V2CTx) as Cathode for Rechargeable Aqueous Zinc-Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 4677-4689	6.1	61
245	Gas-Permeable, Irritation-Free, Transparent Hydrogel Contact Lens Devices with Metal-Coated Nanofiber Mesh for Eye Interfacing. *ACS Nano*, **2019**, 13, 7920-7929	16.7	32
244	Pressure-Induced Phase Transition and Band Gap Engineering in Propylammonium Lead Bromide Perovskite. *Journal of Physical Chemistry C*, **2019**, 123, 15204-15208	3.8	8
243	High-Performance Electrodes for a Hybrid Supercapacitor Derived from a Metal□Organic Framework/Graphene Composite. *ACS Applied Energy Materials*, **2019**, 2, 5029-5038	6.1	24
242	Metal-organic frameworks and their derivatives for metal-air batteries. *Energy Storage Materials*, **2019**, 23, 757-771	19.4	60
241	Pressure-Controlled Structural Symmetry Transition in Layered InSe. *Laser and Photonics Reviews*, **2019**, 13, 1900012	8.3	7
240	Highly efficient K-Fe/C catalysts derived from metal-organic frameworks towards ammonia synthesis. *Nano Research*, **2019**, 12, 2341-2347	10	17
239	Metal-organic framework based nanomaterials for electrocatalytic oxygen redox reaction. *Science China Chemistry*, **2019**, 62, 417-429	7.9	34
238	A new microporous metal-organic framework with a novel trinuclear nickel cluster for selective CO2 adsorption. *Inorganic Chemistry Communication*, **2019**, 104, 78-82	3.1	19
237	Pressure-induced phase transitions and superconductivity in a quasi-1-dimensional topological crystalline insulator □BiBr. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 17696-17700	11.5	18
236	Benchmark selectivity -xylene separation by a non-porous molecular solid through liquid or vapor extraction. *Chemical Science*, **2019**, 10, 8850-8854	9.4	17
235	Inlaying Ultrathin Bimetallic MOF Nanosheets into 3D Ordered Macroporous Hydroxide for Superior Electrocatalytic Oxygen Evolution. *Small*, **2019**, 15, e1902218	11	54

234	Engineering atomically dispersed metal sites for electrocatalytic energy conversion. *Nano Energy*, **2019**, 64, 103917	17.1	41
233	Phase Stability and Compressibility of 3R-MoN at High Pressure. *Scientific Reports*, **2019**, 9, 10524	4.9	3
232	Metal-organic framework-derived materials for electrochemical energy applications. *EnergyChem*, **2019**, 1, 100001	36.9	333
231	A 3D Trilayered CNT/MoSe2/C Heterostructure with an Expanded MoSe2 Interlayer Spacing for an Efficient Sodium Storage. *Advanced Energy Materials*, **2019**, 9, 1900567	21.8	132
230	Recent advances in confining metal-based nanoparticles into carbon nanotubes for electrochemical energy conversion and storage devices. *Energy and Environmental Science*, **2019**, 12, 2924-2956	35.4	104
229	Encapsulating Trogtalite CoSe2 Nanobuds into BCN Nanotubes as High Storage Capacity Sodium Ion Battery Anodes. *Advanced Energy Materials*, **2019**, 9, 1901778	21.8	72
228	Nanobundles of Iron Phosphide Fabricated by Direct Phosphorization of Metal-Organic Frameworks as an Efficient Hydrogen-Evolving Electrocatalyst. *Chemistry - A European Journal*, **2019**, 26, 4001	4.8	7
227	Understanding the Pathway of Gas Hydrate Formation with Porous Materials for Enhanced Gas Separation. *Research*, **2019**, 2019, 3206024	7.8	9
226	Synergistic Effect of Co-Ni Hybrid Phosphide Nanocages for Ultrahigh Capacity Fast Energy Storage. *Advanced Science*, **2019**, 6, 1802005	13.6	80
225	Electrochemical nitrogen fixation and utilization: theories, advanced catalyst materials and system design. *Chemical Society Reviews*, **2019**, 48, 5658-5716	58.5	268
224	Innenr□cktitelbild: Puffing Up Energetic Metall□rganic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites (Angew. Chem. 7/2019). *Angewandte Chemie*, **2019**, 131, 2177-2177	3.6	
223	Highly exposed ruthenium-based electrocatalysts from bimetallic metal-organic frameworks for overall water splitting. *Nano Energy*, **2019**, 58, 1-10	17.1	122
222	Ultrafast Sodium/Potassium-Ion Intercalation into Hierarchically Porous Thin Carbon Shells. *Advanced Materials*, **2019**, 31, e1805430	24	148
221	Surface thermodynamic stability of Li-rich Li2MnO3: Effect of defective graphene. *Energy Storage Materials*, **2019**, 22, 113-119	19.4	26
220	Polyurethane-based flexible and conductive phase change composites for energy conversion and storage. *Energy Storage Materials*, **2019**, 20, 401-409	19.4	99
219	Thermally reduced graphene paper with fast Li ion diffusion for stable Li metal anode. *Electrochimica Acta*, **2019**, 294, 413-422	6.7	23
218	Puffing Up Energetic Metall□rganic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites. *Angewandte Chemie*, **2019**, 131, 1997-2001	3.6	41
217	Puffing Up Energetic Metal-Organic Frameworks to Large Carbon Networks with Hierarchical Porosity and Atomically Dispersed Metal Sites. *Angewandte Chemie - International Edition*, **2019**, 58, 1975-1979	16.4	162

216	Pressure-Driven Reversible Switching between n- and p-Type Conduction in Chalcopyrite CuFeS. *Journal of the American Chemical Society*, **2019**, 141, 505-510	16.4	19
215	Structure Distortion Induced Monoclinic Nickel Hexacyanoferrate as High-Performance Cathode for Na-Ion Batteries. *Advanced Energy Materials*, **2019**, 9, 1803158	21.8	54
214	Fabricating hierarchically porous and Fe3C-embeded nitrogen-rich carbon nanofibers as exceptional electocatalysts for oxygen reduction. *Carbon*, **2019**, 142, 115-122	10.4	46
213	Atomically Dispersed Metal Sites in MOF-Based Materials for Electrocatalytic and Photocatalytic Energy Conversion. *Angewandte Chemie - International Edition*, **2018**, 57, 9604-9633	16.4	324
212	Atomar dispergierte Metallzentren in Metall-organischen Gerüststrukturen für die elektrokatalytische und photokatalytische Energieumwandlung. *Angewandte Chemie*, **2018**, 130, 9750-9780	3.6	49
211	Pressure-induced anomalies and structural instability in compressed □SbO. *Physical Chemistry Chemical Physics*, **2018**, 20, 11430-11436	3.6	5
210	Titanium-based metal□organic frameworks for photocatalytic applications. *Coordination Chemistry Reviews*, **2018**, 359, 80-101	23.2	163
209	Vanadium Diboride (VB) Synthesized at High Pressure: Elastic, Mechanical, Electronic, and Magnetic Properties and Thermal Stability. *Inorganic Chemistry*, **2018**, 57, 1096-1105	5.1	39
208	Synthesis of single-crystal perovskite PbCrO3 through a new reaction route at high pressure. *High Pressure Research*, **2018**, 38, 136-144	1.6	3
207	MOF-derived □NiS nanorods on graphene as an electrode for high-energy-density supercapacitors. *Journal of Materials Chemistry A*, **2018**, 6, 4003-4012	13	178
206	A solvent □squeezing□strategy to graft ethylenediamine on Cu3(BTC)2 for highly efficient CO2/CO separation. *Chemical Engineering Science*, **2018**, 184, 85-92	4.4	21
205	Fabrication of nitrogen and sulfur co-doped hollow cellular carbon nanocapsules as efficient electrode materials for energy storage. *Energy Storage Materials*, **2018**, 13, 72-79	19.4	60
204	A Universal Strategy for Hollow Metal Oxide Nanoparticles Encapsulated into B/N Co-Doped Graphitic Nanotubes as High-Performance Lithium-Ion Battery Anodes. *Advanced Materials*, **2018**, 30, 1705441	24	276
203	Thermoelasticity and anomalies in the pressure dependence of phonon velocities in niobium. *Applied Physics Letters*, **2018**, 112, 011901	3.4	10
202	"One-for-All" Strategy in Fast Energy Storage: Production of Pillared MOF Nanorod-Templated Positive/Negative Electrodes for the Application of High-Performance Hybrid Supercapacitor. *Small* , **2018**, 14, e1800285	11	57
201	Nanoconfined phase change materials for thermal energy applications. *Energy and Environmental Science*, **2018**, 11, 1392-1424	35.4	278
200	Experimental and Theoretical Investigation of Mesoporous MnO2 Nanosheets with Oxygen Vacancies for High-Efficiency Catalytic DeNOx. *ACS Catalysis*, **2018**, 8, 3865-3874	13.1	66
199	A High-Capacity O2-Type Li-Rich Cathode Material with a Single-Layer Li MnO Superstructure. *Advanced Materials*, **2018**, 30, e1707255	24	146

198	Si-Disordering in MgAl2O4-Spinel under High P-T Conditions, with Implications for Si-Mg Disorder in Mg2SiO4-Ringwoodite. *Minerals (Basel, Switzerland)*, **2018**, 8, 210	2.4	11
197	Metal□Organic Framework Based Catalysts for Hydrogen Evolution. *Advanced Energy Materials*, **2018**, 8, 1801193	21.8	233
196	Thermally Induced Anomaly in the Shear Behavior of Magnetite at High Pressure. *Physical Review Applied*, **2018**, 10,	4.3	2
195	Highly Dispersed Co-B/N Codoped Carbon Nanospheres on Graphene for Synergistic Effects as Bifunctional Oxygen Electrocatalysts. *ACS Applied Materials & Interfaces*, **2018**, 10, 30460-30469	9.5	25
194	Hierarchical Cobalt Phosphide Hollow Nanocages toward Electrocatalytic Ammonia Synthesis under Ambient Pressure and Room Temperature. *Small Methods*, **2018**, 2, 1800204	12.8	124
193	Tuning Expanded Pores in Metal-Organic Frameworks for Selective Capture and Catalytic Conversion of Carbon Dioxide. *ChemSusChem*, **2018**, 11, 3751-3757	8.3	32
192	Pressure-induced structural and electronic transitions, metallization, and enhanced visible-light responsiveness in layered rhenium disulphide. *Physical Review B*, **2018**, 97,	3.3	18
191	Homologous Co3O4?CoP nanowires grown on carbon cloth as a high-performance electrode pair for triclosan degradation and hydrogen evolution. *Materials Chemistry Frontiers*, **2018**, 2, 323-330	7.8	27
190	Tailoring biomass-derived carbon for high-performance supercapacitors from controllably cultivated algae microspheres. *Journal of Materials Chemistry A*, **2018**, 6, 1523-1530	13	69
189	Pristine Metal-Organic Frameworks and their Composites for Energy Storage and Conversion. *Advanced Materials*, **2018**, 30, e1702891	24	399
188	Ultralow Loading Ruthenium Nanoparticles on Nitrogen-Doped Graphene Aerogel for Trifunctional Electrocatalysis. *ChemCatChem*, **2018**, 10, 1113-1121	5.2	18
187	Large-scale fabrication of BCN nanotube architecture entangled on a three-dimensional carbon skeleton for energy storage. *Journal of Materials Chemistry A*, **2018**, 6, 21225-21230	13	33
186	Magnetic origin of phase stability in cubic □MoN. *Applied Physics Letters*, **2018**, 113, 221901	3.4	6
185	Metal-Organic Frameworks for Batteries. *Joule*, **2018**, 2, 2235-2259	27.8	268
184	Amine-Grafted MIL-101(Cr) via Double-Solvent Incorporation for Synergistic Enhancement of CO2 Uptake and Selectivity. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16493-16502	8.3	22
183	Fe N/S/N Codecorated Hierarchical Porous Carbon Nanosheets for Trifunctional Electrocatalysis. *Small*, **2018**, 14, e1803500	11	53
182	Metal-organic frameworks and their derivatives as bifunctional electrocatalysts. *Coordination Chemistry Reviews*, **2018**, 376, 430-448	23.2	125
181	Unraveling a novel ferroelectric GeSe phase and its transformation into a topological crystalline insulator under high pressure. *NPG Asia Materials*, **2018**, 10, 882-887	10.3	14

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