

Hui-Ying Yang

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.

303
papers

14,251
citations

66
h-index

105
g-index

324
ext. papers

17,062
ext. citations

9.3
avg, IF

7.12
L-index

#	Paper	IF	Citations
303	Topotactic Epitaxy Self-Assembly of Potassium Manganese Hexacyanoferrate Superstructures for Highly Reversible Sodium-Ion Batteries.. <i>ACS Nano</i> , 2022 ,	16.7	1
302	Size and composition regulated sodium vanadium fluorophosphate wrapped in rGO as an efficient cathode for brackish and seawater desalination. <i>Desalination</i> , 2022 , 528, 115514	10.3	
301	3D porous H-Ti ₃ C ₂ T films as free-standing electrodes for zinc ion hybrid capacitors. <i>Chemical Engineering Journal</i> , 2022 , 435, 135052	14.7	1
300	Defect-Engineered 3D hierarchical NiMoS nanoflowers as bifunctional electrocatalyst for overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1876-1887	9.3	9
299	Fabrication of Li _{1.4} Al _{0.4} Ti _{1.6} (PO ₄) ₃ quasi-solid electrolyte with high conductivity and compatibility through AAO template. <i>Applied Physics Letters</i> , 2022 , 120, 191902	3.4	4
298	Modulating Pt-O-Pt atomic clusters with isolated cobalt atoms for enhanced hydrogen evolution catalysis.. <i>Nature Communications</i> , 2022 , 13, 2430	17.4	7
297	Recent advances in kinetic optimizations of cathode materials for rechargeable magnesium batteries. <i>Coordination Chemistry Reviews</i> , 2022 , 466, 214597	23.2	1
296	MXene-Based Materials for Electrochemical Sodium-Ion Storage. <i>Advanced Science</i> , 2021 , 8, e2003185	13.6	17
295	Unlocking Rapid and Robust Sodium Storage Performance of Zinc-Based Sulfide Indium Incorporation. <i>ACS Nano</i> , 2021 , 15, 8507-8516	16.7	9
294	Combination of heterostructure with oxygen vacancies in Co@CoO _{1-x} nanosheets array for high-performance lithium sulfur batteries. <i>Chemical Engineering Journal</i> , 2021 , 411, 128546	14.7	13
293	Rational design of MXene-based films for energy storage: Progress, prospects. <i>Materials Today</i> , 2021 , 46, 183-211	21.8	19
292	Porosity Engineering of MXene Membrane towards Polysulfide Inhibition and Fast Lithium Ion Transportation for Lithium-Sulfur Batteries. <i>Small</i> , 2021 , 17, e2007442	11	14
291	Guest-species-incorporation in manganese/vanadium-based oxides: Towards high performance aqueous zinc-ion batteries. <i>Nano Energy</i> , 2021 , 85, 105969	17.1	22
290	Metal Ion-Induced Assembly of MXene Aerogels via Biomimetic Microtextures for Electromagnetic Interference Shielding, Capacitive Deionization, and Microsupercapacitors. <i>Advanced Energy Materials</i> , 2021 , 11, 2101494	21.8	12
289	Electric field modulated ion-sieving effects of graphene oxide membranes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 244-253	13	2
288	Design of Black Phosphorous Derivatives with Excellent Stability and Ion-Kinetics for Alkali Metal-Ion Battery. <i>Energy Storage Materials</i> , 2021 , 35, 283-309	19.4	2
287	Recent Tactics and Advances in the Application of Metal Sulfides as High-Performance Anode Materials for Rechargeable Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2006761	15.6	26

286	Bismuth Oxide Selenium/Graphene Oxide Composites: Toward High-Performance Electrodes for Aqueous Alkaline Battery. <i>Energy and Environmental Materials</i> , 2021 , 4, 465-473	13	6
285	Tungsten disulfide-reduced GO/CNT aerogel: a tuned interlayer spacing anode for efficient water desalination. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10758-10768	13	11
284	Quasi-solid electrolyte developed on hierarchical rambutan-like γ -AlOOH microspheres with high ionic conductivity for lithium ion batteries. <i>Nanoscale</i> , 2021 , 13, 13310-13317	7.7	1
283	One-Pot Confined Epitaxial Growth of 2D Heterostructure Arrays 2021 , 3, 217-223		4
282	Confining Sb ₂ Se ₃ nanorod yolk in a mesoporous carbon shell with an in-built buffer space for stable Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3388-3397	13	8
281	A minireview on chemical vapor deposition growth of wafer-scale monolayer -BN single crystals. <i>Nanoscale</i> , 2021 , 13, 17310-17317	7.7	1
280	A membrane-less desalination battery with ultrahigh energy efficiency. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7216-7226	13	2
279	The design of flower-like CMnO_2 nanosheets on carbon cloth toward high-performance flexible zinc-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9675-9684	13	10
278	Highly efficient and stable ionic liquid-based gel electrolytes. <i>Nanoscale</i> , 2021 , 13, 7140-7151	7.7	5
277	Unveiling the Relationship between the Surface Chemistry of Nanoparticles and Ion Transport Properties of the Resulting Composite Electrolytes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 642-649	6.4	1
276	Defect and Doping-Co-Engineered Non-Metal Nanocarbon ORR Electrocatalyst. <i>Nano-Micro Letters</i> , 2021 , 13, 65	19.5	49
275	ZnSe Modified Zinc Metal Anodes: Toward Enhanced Zincophilicity and Ionic Diffusion. <i>Small</i> , 2021 , 17, e2101728	11	24
274	Hierarchical Co ₃ O ₄ /CNT decorated electrospun hollow nanofiber for efficient hybrid capacitive deionization. <i>Separation and Purification Technology</i> , 2021 , 266, 118593	8.3	7
273	Improved thermal and structural stabilities of LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode by La ₂ Zr ₂ O ₇ multifunctional modification. <i>Applied Physics Letters</i> , 2021 , 119, 093902	3.4	2
272	Efficient Ohmic contacts and built-in atomic sublayer protection in MoSi ₂ N ₄ and WSi ₂ N ₄ monolayers. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	25
271	Conformal coating of lithium-zinc alloy on 3D conducting scaffold for high areal capacity dendrite-free lithium metal batteries. <i>Carbon</i> , 2021 , 181, 99-106	10.4	6
270	Reproducible X-ray Imaging with a Perovskite Nanocrystal Scintillator Embedded in a Transparent Amorphous Network Structure. <i>Advanced Materials</i> , 2021 , 33, e2102529	24	47
269	A crystalline dihydroxyanthraquinone anodic material for proton batteries. <i>Materials Today Energy</i> , 2021 , 22, 100872	7	2

268	Prompting structure stability of $\text{O}_3\text{NiNi}_0.5\text{Mn}_0.5\text{O}_2$ via effective surface regulation based on atomic layer deposition. <i>Ceramics International</i> , 2021 , 47, 28521-28527	5.1	2
267	Electrochemically activated layered manganese oxide for selective removal of calcium and magnesium ions in hybrid capacitive deionization. <i>Desalination</i> , 2021 , 520, 115374	10.3	3
266	Constructing Atomic Heterometallic Sites in Ultrathin Nickel-Incorporated Cobalt Phosphide Nanosheets via a Boron-Assisted Strategy for Highly Efficient Water Splitting. <i>Nano Letters</i> , 2021 , 21, 823-832	11.5	32
265	Recent progress in aqueous zinc-ion batteries: a deep insight into zinc metal anodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 6013-6028	13	30
264	Recent Advances in Heterostructure Engineering for Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2003689	21.8	79
263	Ladder Mechanisms of Ion Transport in Prussian Blue Analogues.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	4
262	Self-templated formation of (NiCo)S yolk-shelled spheres for high-performance hybrid supercapacitors. <i>Nanoscale</i> , 2020 , 12, 23497-23505	7.7	8
261	Integrated NiCo ₂ -LDHs@MXene/rGO aerogel: Componential and structural engineering towards enhanced performance stability of hybrid supercapacitor. <i>Chemical Engineering Journal</i> , 2020 , 396, 125197	14.7	50
260	Electrical Contact between an Ultrathin Topological Dirac Semimetal and a Two-Dimensional Material. <i>Physical Review Applied</i> , 2020 , 13,	4.3	11
259	Unconventional Mn Vacancies in MnFe Prussian Blue Analogs: Suppressing Jahn-Teller Distortion for Ultrastable Sodium Storage. <i>Chem</i> , 2020 , 6, 1804-1818	16.2	46
258	Undercooling-directed NaCl crystallization: an approach towards nanocavity-linked graphene networks for fast lithium and sodium storage. <i>Nanoscale</i> , 2020 , 12, 7622-7630	7.7	7
257	Regulating the breathing of mesoporous Fe _{0.95} S _{1.05} nanorods for fast and durable sodium storage. <i>Energy Storage Materials</i> , 2020 , 32, 151-158	19.4	21
256	Enabling Superior Sodium Capture for Efficient Water Desalination by a Tubular Polyaniline Decorated with Prussian Blue Nanocrystals. <i>Advanced Materials</i> , 2020 , 32, e1907404	24	76
255	3D Printed Compressible Quasi-Solid-State Nickel-Iron Battery. <i>ACS Nano</i> , 2020 , 14, 9675-9686	16.7	32
254	Rechargeable Aqueous Zinc-Ion Batteries in MgSO ₄ /ZnSO ₄ Hybrid Electrolytes. <i>Nano-Micro Letters</i> , 2020 , 12, 60	19.5	26
253	Super Kinetically Pseudocapacitive MnCo ₂ S ₄ Nanourchins toward High-Rate and Highly Stable Sodium-Ion Storage. <i>Advanced Functional Materials</i> , 2020 , 30, 1909702	15.6	23
252	Interface engineering by atomically thin layer tungsten disulfide catalyst for high performance LiS battery. <i>Materials Today Energy</i> , 2020 , 16, 100380	7	10
251	Capacitive Deionization of Divalent Cations for Water Softening Using Functionalized Carbon Electrodes. <i>ACS Omega</i> , 2020 , 5, 2097-2106	3.9	19

250	Boosted electrochemical ammonia synthesis by high-percentage metallic transition metal dichalcogenide quantum dots. <i>Nanoscale</i> , 2020 , 12, 10964-10971	7.7	14
249	3D-printed functional electrodes towards Zn-Air batteries. <i>Materials Today Energy</i> , 2020 , 16, 100407	7	23
248	Morphological and Electronic Dual Regulation of Cobalt-Nickel Bimetal Phosphide Heterostructures Inducing High Water-Splitting Performance. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 3911-3919	6.4	18
247	Enhanced sodium storage kinetics by volume regulation and surface engineering via rationally designed hierarchical porous FeP@C/rGO. <i>Nanoscale</i> , 2020 , 12, 4341-4351	7.7	40
246	Constructing stress-release layer on Fe ₇ Se ₈ -based composite for highly stable sodium-storage. <i>Nano Energy</i> , 2020 , 69, 104389	17.1	29
245	Controllable Synthesis of Two-Dimensional Molybdenum Disulfide (MoS ₂) for Energy-Storage Applications. <i>ChemSusChem</i> , 2020 , 13, 1379-1391	8.3	29
244	A Selective Reduction Approach to Construct Robust Cu _{1.81} S Truss Structures for High-Performance Sodium Storage. <i>Matter</i> , 2020 , 2, 428-439	12.7	18
243	High speed capacitive deionization system with flow-through electrodes. <i>Desalination</i> , 2020 , 496, 114750-114760	10.3	6
242	Quantum dot-carbonaceous nanohybrid composites: preparation and application in electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22488-22506	13	9
241	Flexible and additive-free organic electrodes for aqueous sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 22791-22801	13	6
240	Ocean Mining: A Fluidic Electrochemical Route for Lithium Extraction from Seawater 2020 , 2, 1662-1668		3
239	Nanoframes@CNT Beads-on-a-String Structures: Toward an Advanced High-Stable Sodium-Ion Full Battery. <i>Small</i> , 2020 , 16, e2005095	11	6
238	Stepwise Intercalation-Conversion-Intercalation Sodiation Mechanism in CuInS ₂ Prompting Sodium Storage Performance. <i>ACS Energy Letters</i> , 2020 , 5, 3725-3732	20.1	15
237	A review on free-standing electrodes for energy-effective desalination: Recent advances and perspectives in capacitive deionization. <i>Desalination</i> , 2020 , 493, 114662	10.3	31
236	An energy efficient bi-functional electrode for continuous cation-selective capacitive deionization. <i>Nanoscale</i> , 2020 , 12, 22917-22927	7.7	7
235	Direct antimony recovery from wastewater as anode materials for sodium-ion batteries. <i>Materials Today Energy</i> , 2020 , 16, 100403	7	6
234	Boosting chem-insertion and phys-adsorption in S/N co-doped porous carbon nanospheres for high-performance symmetric Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11529-11537	13	17
233	Microstructural Engineering of Cathode Materials for Advanced Zinc-Ion Aqueous Batteries. <i>Advanced Science</i> , 2020 , 8, 2002722	13.6	21

232	Reversible Sodium Storage: Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping (Adv. Energy Mater. 33/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970127	21.8	1
231	High-Concentration Niobium-Substituted WS Basal Domains with Reconfigured Electronic Band Structure for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 34862-34868	11.5	11
230	Boosting Sodium Storage of FeS/MoS Composite via Heterointerface Engineering. <i>Nano-Micro Letters</i> , 2019 , 11, 80	19.5	47
229	Effects of precursor pre-treatment on the vapor deposition of WS ₂ monolayers. <i>Nanoscale Advances</i> , 2019 , 1, 953-960	5.1	7
228	Efficient Sodium-Ion Intercalation into the Freestanding Prussian Blue/Graphene Aerogel Anode in a Hybrid Capacitive Deionization System. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 5989-5998	9.5	64
227	Location-selective growth of two-dimensional metallic/semiconducting transition metal dichalcogenide heterostructures. <i>Nanoscale</i> , 2019 , 11, 4183-4189	7.7	10
226	Dual-Ion Electrochemical Deionization System with Binder-Free Aerogel Electrodes. <i>Small</i> , 2019 , 15, e1805505	11	48
225	Germagraphene as a promising anode material for lithium-ion batteries predicted from first-principles calculations. <i>Nanoscale Horizons</i> , 2019 , 4, 457-463	10.8	36
224	Polypyrrole coated niobium disulfide nanowires as high performance electrocatalysts for hydrogen evolution reaction. <i>Nanotechnology</i> , 2019 , 30, 405601	3.4	4
223	Two-dimensional SnS ₂ nanosheets on Prussian blue template for high performance sodium ion batteries. <i>Frontiers of Chemical Science and Engineering</i> , 2019 , 13, 493-500	4.5	3
222	Construction of complex NiS multi-shelled hollow structures with enhanced sodium storage. <i>Energy Storage Materials</i> , 2019 , 23, 17-24	19.4	49
221	Activated derived biowaste carbon for enhanced desalination performance in brackish water.. <i>RSC Advances</i> , 2019 , 9, 14884-14892	3.7	10
220	Explicating the Sodium Storage Kinetics and Redox Mechanism of Highly Pseudocapacitive Binary Transition Metal Sulfide via Operando Techniques and Ab Initio Evaluation. <i>Small Methods</i> , 2019 , 3, 1900112	12.8	14
219	Surface modification of Na ₂ Ti ₃ O ₇ nanofibre arrays using N-doped graphene quantum dots as advanced anodes for sodium-ion batteries with ultra-stable and high-rate capability. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12751-12762	13	56
218	Rhenium disulfide nanosheets/carbon composite as novel anodes for high-rate and long lifespan sodium-ion batteries. <i>Nano Energy</i> , 2019 , 61, 626-636	17.1	29
217	The efficient faradaic Li ₄ Ti ₅ O ₁₂ @C electrode exceeds the membrane capacitive desalination performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8912-8921	13	19
216	3D self-branched zinc-cobalt Oxide@N-doped carbon hollow nanowall arrays for high-performance asymmetric supercapacitors and oxygen electrocatalysis. <i>Energy Storage Materials</i> , 2019 , 23, 653-663	19.4	56
215	Free-standing flexible film as a binder-free electrode for an efficient hybrid deionization system. <i>Nanoscale</i> , 2019 , 11, 5896-5908	7.7	18

214	An all manganese-based oxide nanocrystal cathode and anode for high performance lithium-ion full cells. <i>Nanoscale Advances</i> , 2019 , 1, 1714-1720	5.1	6
213	Fast-neutron irradiation effects on monolayer MoS ₂ . <i>Applied Physics Express</i> , 2019 , 12, 056001	2.4	3
212	A Study of MnO with Different Crystalline Forms for Pseudocapacitive Desalination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 13176-13184	9.5	77
211	Tunable Pseudocapacitive Behavior in Metal-Organic Framework-Derived TiO ₂ @Porous Carbon Enabling High-Performance Membrane Capacitive Deionization. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1812-1822	6.1	32
210	Miniature Pneumatic Actuators for Soft Robots by High-Resolution Multimaterial 3D Printing. <i>Advanced Materials Technologies</i> , 2019 , 4, 1900427	6.8	52
209	A MoS ₂ /MWCNT based fluorometric nanosensor for exosome detection and quantification. <i>Nanoscale Advances</i> , 2019 , 1, 2866-2872	5.1	20
208	Promoting Highly Reversible Sodium Storage of Iron Sulfide Hollow Polyhedrons via Cobalt Incorporation and Graphene Wrapping. <i>Advanced Energy Materials</i> , 2019 , 9, 1901584	21.8	46
207	In situ-grown compressed NiCo ₂ S ₄ barrier layer for efficient and durable polysulfide entrapment. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	14
206	Graphene-Induced in Situ Growth of Monolayer and Bilayer 2D SiC Crystals Toward High-Temperature Electronics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 39109-39115	9.5	7
205	In situ epitaxial engineering of graphene and h-BN lateral heterostructure with a tunable morphology comprising h-BN domains. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	22
204	Thermal-Assisted Vertical Electron Injections in Few-Layer Pyramidal-Structured MoS Crystals. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1292-1299	6.4	5
203	Bifunctional NiCo ₂ S ₄ catalysts supported on a carbon textile interlayer for ultra-stable LiS battery. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7604-7613	13	60
202	Elucidating the reaction kinetics of lithium-sulfur batteries by operando XRD based on an open-hollow S@MnO ₂ cathode. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6651-6658	13	28
201	Promoting polysulfide conversion by catalytic ternary Fe ₃ O ₄ /carbon/graphene composites with ordered microchannels for ultrahigh-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 25078-25087	13	43
200	Design Multifunctional Catalytic Interface: Toward Regulation of Polysulfide and Li-S Redox Conversion in Li-S Batteries. <i>Small</i> , 2019 , 15, e1906132	11	35
199	3D printed electrodes for efficient membrane capacitive deionization. <i>Nanoscale Advances</i> , 2019 , 1, 4804-4811	5.1	14
198	Three-dimensional honeycomb carbon: Junction line distortion and novel emergent fermions. <i>Carbon</i> , 2019 , 141, 417-426	10.4	29
197	From Self-Assembly Hierarchical h-BN Patterns to Centimeter-Scale Uniform Monolayer h-BN Film. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801493	4.6	14

196	Determination of boron concentration in aqueous solutions based on conductivity measurement: a boron sensor based on conductivity measurement. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 1711-1716	3.3	0
195	Three-dimensional graphene oxide and polyvinyl alcohol composites as structured activated carbons for capacitive desalination. <i>Desalination</i> , 2019 , 451, 172-181	10.3	43
194	Low energy consumption dual-ion electrochemical deionization system using NaTi ₂ (PO ₄) ₃ -AgNPs electrodes. <i>Desalination</i> , 2019 , 451, 241-247	10.3	63
193	Significant photoluminescence enhancement in WS monolayers through NaS treatment. <i>Nanoscale</i> , 2018 , 10, 6105-6112	7.7	21
192	A high performance electrochemical deionization method to desalinate brackish water with an FePO ₄ /RGO nanocomposite. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8901-8908	13	42
191	Efficient Sodium Storage in Rolled-Up Amorphous Si Nanomembranes. <i>Advanced Materials</i> , 2018 , 30, e1706637	24	57
190	NaTi ₂ (PO ₄) ₃ -Ag electrodes based desalination battery and energy recovery. <i>FlatChem</i> , 2018 , 8, 9-16	5.1	39
189	Ar plasma modification of 2D MXene Ti ₃ C ₂ T _x nanosheets for efficient capacitive desalination. <i>FlatChem</i> , 2018 , 8, 17-24	5.1	63
188	Rod-like nitrogen-doped carbon hollow shells for enhanced capacitive deionization. <i>FlatChem</i> , 2018 , 7, 10-17	5.1	15
187	3D hierarchical defect-rich NiMo ₃ S ₄ nanosheet arrays grown on carbon textiles for high-performance sodium-ion batteries and hydrogen evolution reaction. <i>Nano Energy</i> , 2018 , 49, 460-470	17.1	78
186	Superior initial coulombic efficiency through graphene quantum dot decorated on MoS ₂ . <i>FlatChem</i> , 2018 , 9, 8-14	5.1	7
185	Crystallization-Induced Morphological Tuning Toward Denim-like Graphene Nanosheets in a KCl-Copolymer Solution. <i>ACS Nano</i> , 2018 , 12, 4019-4024	16.7	19
184	3D-Printed, Carbon-Nanotube-Wrapped, Thermoresponsive Polymer Spheres for Safer Lithium-Ion Batteries. <i>Energy Technology</i> , 2018 , 6, 1715-1722	3.5	10
183	Hybrid nodal loop metal: Unconventional magnetoresponse and material realization. <i>Physical Review B</i> , 2018 , 97,	3.3	54
182	Sustainable Routes for the Synthesis of Renewable Heteroatom-Containing Chemicals. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5694-5707	8.3	104
181	Bifunctional porous iron phosphide/carbon nanostructure enabled high-performance sodium-ion battery and hydrogen evolution reaction. <i>Energy Storage Materials</i> , 2018 , 15, 98-107	19.4	80
180	SnSe ₂ Quantum Dot/rGO composite as high performing lithium anode. <i>Energy Storage Materials</i> , 2018 , 10, 92-101	19.4	47
179	Regulating the polysulfide redox conversion by iron phosphide nanocrystals for high-rate and ultrastable lithium-sulfur battery. <i>Nano Energy</i> , 2018 , 51, 340-348	17.1	202

178	Recent Advances in Growth of Novel 2D Materials: Beyond Graphene and Transition Metal Dichalcogenides. <i>Advanced Materials</i> , 2018 , 30, e1800865	24	135
177	Universal Scaling Laws in Schottky Heterostructures Based on Two-Dimensional Materials. <i>Physical Review Letters</i> , 2018 , 121, 056802	7.4	80
176	High-Performance Membrane Capacitive Deionization Based on Metal-Organic Framework-Derived Hierarchical Carbon Structures. <i>ACS Omega</i> , 2018 , 3, 8506-8513	3.9	26
175	Three-dimensional hierarchical NiCo ₂ S ₄ @MoS ₂ heterostructure arrays for high performance sodium ion battery. <i>FlatChem</i> , 2018 , 10, 14-21	5.1	10
174	3D carbon foam-supported WS ₂ nanosheets for cable-shaped flexible sodium ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 10813-10824	13	82
173	Mechanism Investigation of High-Performance Li-Polysulfide Batteries Enabled by Tungsten Disulfide Nanopetals. <i>ACS Nano</i> , 2018 , 12, 9504-9512	16.7	61
172	Tailoring NiO Nanostructured Arrays by Sulfate Anions for Sodium-Ion Batteries. <i>Small</i> , 2018 , 14, e1800898	11.8	29
171	Free-Standing Electrodes Derived from Metal-Organic Frameworks/ Nanofibers Hybrids for Membrane Capacitive Deionization. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800135	6.8	22
170	Ultrahigh-Desalination-Capacity Dual-Ion Electrochemical Deionization Device Based on NaV(PO) ₄ @C-AgCl Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 40540-40548	9.5	53
169	Unlocking the potential of SnS: Transition metal catalyzed utilization of reversible conversion and alloying reactions. <i>Scientific Reports</i> , 2017 , 7, 41015	4.9	18
168	Modeling of a selective solar absorber thin film structure based on double TiN _x O _y layers for concentrated solar power applications. <i>Solar Energy</i> , 2017 , 142, 33-38	6.8	19
167	Bimetallic metal-organic framework derived porous carbon nanostructures for high performance membrane capacitive desalination. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 6113-6121	13	71
166	Concurrent Synthesis of High-Performance Monolayer Transition Metal Disulfides. <i>Advanced Functional Materials</i> , 2017 , 27, 1605896	15.6	31
165	An aqueous rechargeable chloride ion battery. <i>Energy Storage Materials</i> , 2017 , 7, 189-194	19.4	57
164	Nontopotactic Reaction in Highly Reversible Sodium Storage of Ultrathin Co Se /rGO Hybrid Nanosheets. <i>Small</i> , 2017 , 13, 1603980	11	34
163	Cubic-shaped WS ₂ nanopetals on a Prussian blue derived nitrogen-doped carbon nanoporous framework for high performance sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10406-10415	13.77	77
162	W/Cu thin film infrared reflector for TiN _x O _y based selective solar absorber with high thermal stability. <i>Journal of Applied Physics</i> , 2017 , 121, 203101	2.5	6
161	Boron detection and quantification based on the absorption spectra of pyridoxine and its boron complex. <i>Environmental Chemistry</i> , 2017 , 14, 135	3.2	1

160	A dual-ion electrochemistry deionization system based on AgCl-NaMnO electrodes. <i>Nanoscale</i> , 2017 , 9, 10101-10108	7.7	96
159	Fe ₃ O ₄ quantum dot decorated MoS ₂ nanosheet arrays on graphite paper as free-standing sodium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9122-9131	13	74
158	3D nitrogen-doped graphene foam with encapsulated germanium/nitrogen-doped graphene yolk-shell nanoarchitecture for high-performance flexible Li-ion battery. <i>Nature Communications</i> , 2017 , 8, 13949	17.4	277
157	3D nitrogen-doped graphene decorated CoNi ₂ S ₄ @polypyrrole electrode for pseudocapacitor with ultrahigh electrochemical performance. <i>FlatChem</i> , 2017 , 6, 1-10	5.1	6
156	A Prussian blue anode for high performance electrochemical deionization promoted by the faradaic mechanism. <i>Nanoscale</i> , 2017 , 9, 13305-13312	7.7	114
155	Ultrahigh performance of a novel electrochemical deionization system based on a NaTi ₂ (PO ₄) ₃ /rGO nanocomposite. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 18157-18165	13	76
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