

Xihong Lu

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.

341
papers

31,382
citations

93
h-index

170
g-index

365
ext. papers

36,082
ext. citations

10.6
avg, IF

7.6
L-index

#	Paper	IF	Citations
341	Operando monitoring of ion activities in aqueous batteries with plasmonic fiber-optic sensors.. <i>Nature Communications</i> , 2022 , 13, 547	17.4	6
340	High-performance photocatalytic decomposition of PFOA by BiOX/TiO heterojunctions: Self-induced inner electric fields and band alignment.. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128195	12.8	2
339	Smart Designs of Mo Based Electrocatalysts for Hydrogen Evolution Reaction. <i>Catalysts</i> , 2022 , 12, 2	4	0
338	Intrinsic carbon defects induced reversible antimony chemistry for high-energy aqueous alkaline batteries.. <i>Advanced Materials</i> , 2022 , e2200085	24	4
337	Flexible Asymmetric Supercapacitors 2022 , 1-17		
336	Calcium peroxide pre-treatment improved the anaerobic digestion of primary sludge and its co-digestion with waste activated sludge.. <i>Science of the Total Environment</i> , 2022 , 154404	10.2	0
335	High rate and ultralong life flexible all-solid-state zinc ion battery based on electron density modulated NiCo ₂ O ₄ nanosheets. <i>Journal of Energy Chemistry</i> , 2022 , 70, 283-291	12	2
334	Facile hydrothermal synthesis of cobaltosic sulfide nanorods for high performance supercapacitors.. <i>RSC Advances</i> , 2022 , 12, 11665-11670	3.7	
333	Ultrathin-FeOOH-Coated MnO Sonosensitizers with Boosted Reactive Oxygen Species Yield and Remodeled Tumor Microenvironment for Efficient Cancer Therapy.. <i>Advanced Science</i> , 2022 , e2200005	13.6	3
332	CoP Nanoparticle Confined in P, N Co-Doped Porous Carbon Anchored on P-Doped Carbonized Wood Fibers with Tailored Electronic Structure for Efficient Urea Electro-Oxidation.. <i>Small</i> , 2022 , e2200950	11	3
331	A high-voltage aqueous antimony-manganese hybrid battery based on all stripping/plating mechanism. <i>Energy Storage Materials</i> , 2022 , 49, 529-536	19.4	1
330	Crystal form modulation enables high-performance manganese dioxide cathode for aqueous zinc ion battery. <i>Journal of Alloys and Compounds</i> , 2022 , 913, 165207	5.7	1
329	Structural regulation strategies toward high performance organic materials for next generation aqueous Zn-based batteries 2021 ,		1
328	One-pot synthesis of oxygen-vacancy-rich Cu-doped UiO-66 for collaborative adsorption and photocatalytic degradation of ciprofloxacin. <i>Science of the Total Environment</i> , 2021 , 815, 151962	10.2	4
327	Enhancing Li-Ion Affinity of Molybdenum Dioxide/Carbon Fabric to Achieve High Pseudocapacitance. <i>Small</i> , 2021 , 17, e2104178	11	2
326	Ten Thousand-Cycle Ultrafast Energy Storage of Wadsley-Roth Phase Fe-Nb Oxides with a Desolvation Promoting Interfacial Layer. <i>Nano Letters</i> , 2021 , 21, 9675-9683	11.5	5
325	Co O Nanowires Capable of Discharging Low Voltage Electricity Showing Potent Antibacterial Activity for Treatment of Bacterial Skin Infection. <i>Advanced Healthcare Materials</i> , 2021 , e2102044	10.1	2

324	Ni (II) Coordination Supramolecular Grids for Aqueous Nickel-Zinc Battery Cathodes. <i>Advanced Functional Materials</i> , 2021 , 31, 2100443	15.6	7
323	Recent progress and challenges of co-based compound for aqueous Zn battery. <i>Nano Select</i> , 2021 , 2, 1642-1660	3.1	1
322	Photocatalytic and Photoelectrochemical Reforming of Biomass 2021 , 389-417		2
321	Fiber-junction design for directional bending sensors. <i>Npj Flexible Electronics</i> , 2021 , 5,	10.7	2
320	Carbon nanotubes-based electrode for Zn ion batteries. <i>Materials Research Bulletin</i> , 2021 , 138, 111246	5.1	6
319	Interlayer Engineering of Preintercalated Layered Oxides as Cathode for Emerging Multivalent Metal-ion Batteries: Zinc and Beyond. <i>Energy Storage Materials</i> , 2021 , 38, 397-437	19.4	31
318	Interlayer Engineering of HMoO Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 896-903	16.4	45
317	Mixed-Valence Copper Selenide as an Anode for Ultralong Lifespan Rocking-Chair Zn-Ion Batteries: An Insight into its Intercalation/Extraction Kinetics and Charge Storage Mechanism. <i>Advanced Functional Materials</i> , 2021 , 31, 2005092	15.6	34
316	Nanobelt-like vanadium dioxide with three-dimensional interconnected tunnel structure enables ultrafast Al-ion storage. <i>Materials Today Energy</i> , 2021 , 19, 100578	7	6
315	Oxygen-deficient TiO_2 decorated carbon paper as advanced anodes for microbial fuel cells. <i>Electrochimica Acta</i> , 2021 , 366, 137468	6.7	6
314	Molten salt assisted synthesis of pitch derived carbon for Zn ion hybrid supercapacitors. <i>Materials Research Bulletin</i> , 2021 , 135, 111134	5.1	24
313	Tuning electronic structure endows 1,4-naphthoquinones with significantly boosted Zn-ion storage capability and output voltage. <i>Journal of Power Sources</i> , 2021 , 483, 229114	8.9	4
312	Linker Defects Triggering Boosted Oxygen Reduction Activity of Co/Zn-ZIF Nanosheet Arrays for Rechargeable Zn-Air batteries. <i>Small</i> , 2021 , 17, e2007085	11	15
311	Interlayer Engineering of HMoO_3 Modulates Selective Hydronium Intercalation in Neutral Aqueous Electrolyte. <i>Angewandte Chemie</i> , 2021 , 133, 909-916	3.6	2
310	A quinone electrode with reversible phase conversion for long-life rechargeable aqueous aluminum-metal batteries. <i>Chemical Communications</i> , 2021 , 57, 6931-6934	5.8	9
309	Structurally reconstituted calcium manganate nanoparticles as a high-performance cathode for aqueous Zn-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5053-5059	13	2
308	Bioinspired interfacial engineering of a CoSe decorated carbon framework cathode towards temperature-tolerant and flexible Zn-air batteries. <i>Nanoscale</i> , 2021 , 13, 3019-3026	7.7	22
307	Oxygen-rich interface enables reversible stibium stripping/plating chemistry in aqueous alkaline batteries. <i>Nature Communications</i> , 2021 , 12, 14	17.4	25

306	Facile preparation of hydrophilic In ₂ O ₃ nanospheres and rods with improved performances for photocatalytic degradation of PFOA. <i>Environmental Science: Nano</i> , 2021 , 8, 1010-1018	7.1	8
305	Mo C/Reduced Graphene Oxide Composites with Enhanced Electrocatalytic Activity and Biocompatibility for Microbial Fuel Cells. <i>Chemistry - A European Journal</i> , 2021 , 27, 4291-4296	4.8	2
304	High-Voltage Rechargeable Aqueous Zinc-Based Batteries: Latest Progress and Future Perspectives. <i>Small Science</i> , 2021 , 1, 2000066		26
303	Printing Porous Carbon Aerogels for Low Temperature Supercapacitors. <i>Nano Letters</i> , 2021 , 21, 3731-3737	17.5	32
302	A COF-Like N-Rich Conjugated Microporous Polytriphenylamine Cathode with Pseudocapacitive Anion Storage Behavior for High-Energy Aqueous Zinc Dual-Ion Batteries. <i>Advanced Materials</i> , 2021 , 33, e2101857	24	28
301	Porous 3D Honeycomb Structure Biomass Carbon as a Supercapacitor Electrode Material to Achieve Efficient Energy Storage. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 11079-11085	3.9	6
300	Carbon-Based Composites as Anodes for Microbial Fuel Cells: Recent Advances and Challenges. <i>ChemPlusChem</i> , 2021 , 86, 1322-1341	2.8	2
299	Mn-N-C Nanostructure Derived from MnO ₂ -x/PANI as Highly Performing Cathode Additive in Li-S Battery. <i>Reactions</i> , 2021 , 2, 275-286	1.5	
298	Pyrrolic-Dominated Nitrogen Redox Enhances Reaction Kinetics of Pitch-Derived Carbon Materials in Aqueous Zinc Ion Hybrid Supercapacitors 2021 , 3, 1291-1299		9
297	Activated nitrogen-doped ordered porous carbon as advanced anode for high-performance microbial fuel cells. <i>Electrochimica Acta</i> , 2021 , 391, 138920	6.7	4
296	Bismuth-based Nanomaterials for Aqueous Alkaline Batteries: Recent Progress and Perspectives. <i>ChemNanoMat</i> , 2021 , 7, 1188	3.5	1
295	Boosting oxygen evolution activity of NiFe layered double hydroxide through interface engineering assisted with naturally-hierarchical wood. <i>Chemical Engineering Journal</i> , 2021 , 421, 129751	14.7	5
294	Anchoring polyaniline molecule on 3D carbon nanotube meshwork as self-standing cathodes for advanced rechargeable zinc ion batteries. <i>Journal of Power Sources</i> , 2021 , 508, 230329	8.9	3
293	Defect modulation of ZnMn ₂ O ₄ nanotube arrays as high-rate and durable cathode for flexible quasi-solid-state zinc ion battery. <i>Chemical Engineering Journal</i> , 2021 , 422, 129890	14.7	10
292	Structure engineering of van der Waals layered transition metal-containing compounds for aqueous energy storage. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2996-3020	7.8	1
291	A High-Rate Two-Dimensional Polyarylimide Covalent Organic Framework Anode for Aqueous Zn-Ion Energy Storage Devices. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19570-19578	16.4	79
290	Boosting oxygen catalytic kinetics of carbon nanotubes by oxygen-induced electron density modulation for advanced Zn-Air batteries. <i>Energy Storage Materials</i> , 2020 , 30, 138-145	19.4	25
289	A high-energy-density aqueous zinc-manganese battery with a La _{0.5} Ca _{0.5} co-doped δ -MnO ₂ cathode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11642-11648	13	30

288	NiMoO ₄ nanowires supported on Ni/C nanosheets as high-performance cathode for stable aqueous rechargeable nickel-zinc battery. <i>Chemical Engineering Journal</i> , 2020 , 400, 125832	14.7	30
287	Challenges and Strategies for Constructing Highly Reversible Zinc Anodes in Aqueous Zinc-Ion Batteries: Recent Progress and Future Perspectives. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000082	5.9	42
286	Interlayer gap widened β -phase molybdenum trioxide as high-rate anodes for dual-ion-intercalation energy storage devices. <i>Nature Communications</i> , 2020 , 11, 1348	17.4	55
285	Aromatic organic molecular crystal with enhanced π -stacking interaction for ultrafast Zn-ion storage. <i>Energy and Environmental Science</i> , 2020 , 13, 2515-2523	35.4	81
284	Flexible Zn-ion batteries based on manganese oxides: Progress and prospect 2020 , 2, 387-407		27
283	Oxygen Defects in Promoting the Electrochemical Performance of Metal Oxides for Supercapacitors: Recent Advances and Challenges. <i>Small Methods</i> , 2020 , 4, 1900823	12.8	59
282	Oxygen incorporated solution-processed high-La ₂ O ₃ dielectrics with large-area uniformity, low leakage and high breakdown field comparable with ALD deposited films. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5163-5173	7.1	5
281	Interfacial Engineering Coupled Valence Tuning of MoO Cathode for High-Capacity and High-Rate Fiber-Shaped Zinc-Ion Batteries. <i>Small</i> , 2020 , 16, e1907458	11	41
280	Sludge Incineration Bottom Ash Enhances Anaerobic Digestion of Primary Sludge toward Highly Efficient Sludge Anaerobic Codigestion. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3005-3012	8.3	7
279	[email[protected]]2P Encapsulation in Interconnected N-Doped Carbonized Cellulose Nanofibril Network for Efficient Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1859-1867	8.3	14
278	3D-Printed Structure Boosts the Kinetics and Intrinsic Capacitance of Pseudocapacitive Graphene Aerogels. <i>Advanced Materials</i> , 2020 , 32, e1906652	24	105
277	Atomic Modulation Triggering Improved Performance of MoO Nanobelts for Fiber-Shaped Supercapacitors. <i>Small</i> , 2020 , 16, e1905778	11	21
276	Phosphate ion and oxygen defect-modulated nickel cobaltite nanowires: a bifunctional cathode for flexible hybrid supercapacitors and microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8722-8730	13	10
275	In situ filling of a robust carbon sponge with hydrogel electrolyte: a type of omni-healable electrode for flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7746-7755	13	7
274	Enhancing Catalytic Activity and Selectivity by Plasmon-Induced Hot Carriers. <i>IScience</i> , 2020 , 23, 101107	6.1	4
273	Oxygen Functionalized CoP Nanowires as High-Efficient and Stable Electrocatalyst for Oxygen Evolution Reaction and Full Water Splitting. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 124512	3.9	3
272	β -MnO ₂ nanorods/graphene composite as efficient cathode for advanced rechargeable aqueous zinc-ion battery. <i>Journal of Energy Chemistry</i> , 2020 , 43, 182-187	12	94
271	Enhancing Zn-Ion Storage Capability of Hydrated Vanadium Pentoxide by the Strategic Introduction of La. <i>ChemSusChem</i> , 2020 , 13, 1568-1574	8.3	26

270	How does synthetic musks affect methane production from the anaerobic digestion of waste activated sludge?. <i>Science of the Total Environment</i> , 2020 , 713, 136594	10.2	4
269	Do zinc dendrites exist in neutral zinc batteries?. <i>Green Energy and Environment</i> , 2020 , 5, 6-7	5.7	2
268	Manipulating nickel oxides in naturally derived cellulose nanofiber networks as robust cathodes for high-performance Ni/Zn batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 565-572	13	26
267	Scalable Production of the Cobaltous Hydroxide Nanosheet Electrode for Ultrahigh-Energy and Stable Aqueous Cobalt/Zinc Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1464-1470	8.3	5
266	Surface Engineering for Advanced Aqueous Supercapacitors: A Review. <i>ChemElectroChem</i> , 2020 , 7, 586-593	13	16
265	Facile Fabrication of Ga ₂ O ₃ Nanorods for Photoelectrochemical Water Splitting. <i>ChemNanoMat</i> , 2020 , 6, 208-211	3.5	4
264	A facile method to produce MoSe ₂ /MXene hybrid nanoflowers with enhanced electrocatalytic activity for hydrogen evolution. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 856, 113727	4.1	19
263	Amorphous cobalt hydrogen phosphate nanosheets with remarkable electrochemical performances as advanced electrode for supercapacitors. <i>Journal of Power Sources</i> , 2020 , 449, 227487	8.9	19
262	Nickel@Nickel Oxide Dendritic Architectures with Boosted Electrochemical Reactivity for Aqueous Nickel/Zinc Batteries. <i>ChemElectroChem</i> , 2020 , 7, 4572-4577	4.3	1
261	Photochemical decomposition of perfluorochemicals in contaminated water. <i>Water Research</i> , 2020 , 186, 116311	12.5	16
260	Binder-free CaV ₃ O ₇ nanobelts with rich oxygen defects as high energy cathode for aqueous Zn-ion battery. <i>Journal of Power Sources</i> , 2020 , 472, 228507	8.9	28
259	Iron-based nanoparticles encapsulated in super-large 3D carbon nanotube networks as a bifunctional catalyst for ultrastable rechargeable zinc/air batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25913-25918	13	6
258	Surface defect-abundant one-dimensional graphitic carbon nitride nanorods boost photocatalytic nitrogen fixation. <i>New Journal of Chemistry</i> , 2020 , 44, 20651-20658	3.6	26
257	Zeolitic Imidazolate Frameworks as Zn Modulation Layers to Enable Dendrite-Free Zn Anodes. <i>Advanced Science</i> , 2020 , 7, 2002173	13.6	77
256	Porous Lanthanum-Doped Manganese Oxide Nanoparticles for Enhanced Sonodynamic Cancer Therapy. <i>Particle and Particle Systems Characterization</i> , 2020 , 37, 2000143	3.1	5
255	Recent progress and challenges of carbon materials for Zn-ion hybrid supercapacitors 2020 , 2, 521-539		59
254	Carbon cloth as an advanced electrode material for supercapacitors: progress and challenges. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17938-17950	13	25
253	The ultrasonic-assisted growth of porous cobalt/nickel composite hydroxides as a super high-energy and stable cathode for aqueous zinc batteries. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17741-17746	13	6

252	Construction of N-doped carbon nanotube encapsulated active nanoparticles in hierarchically porous carbonized wood frameworks to boost the oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 279, 119367	21.8	24
251	Three-Phase Boundary in Cross-Coupled Micro-Mesoporous Networks Enabling 3D-Printed and Ionogel-Based Quasi-Solid-State Micro-Supercapacitors. <i>Advanced Materials</i> , 2020 , 32, e2002474	24	27
250	2020 Roadmap on Zinc Metal Batteries. <i>Chemistry - an Asian Journal</i> , 2020 , 15, 3696-3708	4.5	6
249	Toward materials-by-design: achieving functional materials with physical and chemical effects. <i>Nanotechnology</i> , 2020 , 31, 024002	3.4	3
248	Binder-free NaTi ₂ (PO ₄) ₃ anodes for high-performance coaxial-fiber aqueous rechargeable sodium-ion batteries. <i>Nano Energy</i> , 2020 , 67, 104212	17.1	41
247	Electrodes derived from carbon fiber-reinforced cellulose nanofiber/multiwalled carbon nanotube hybrid aerogels for high-energy flexible asymmetric supercapacitors. <i>Chemical Engineering Journal</i> , 2020 , 379, 122325	14.7	34
246	Coercive Fields Above 6 T in Two Cobalt(II) Radical Chain Compounds. <i>Angewandte Chemie</i> , 2020 , 132, 10697-10705	3.6	3
245	Coercive Fields Above 6 T in Two Cobalt(II)-Radical Chain Compounds. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 10610-10618	16.4	14
244	Simultaneous Cationic and Anionic Redox Reactions Mechanism Enabling High-Rate Long-Life Aqueous Zinc-Ion Battery. <i>Advanced Functional Materials</i> , 2019 , 29, 1905267	15.6	93
243	Manipulation of Nanoplate Structures in Carbonized Cellulose Nanofibril Aerogel for High-Performance Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23374-23381	3.8	22
242	Boosting the Zn-ion storage capability of birnessite manganese oxide nanoflorets by La ³⁺ intercalation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22079-22083	13	65
241	Enhancing the electrochemical performance of nickel cobalt sulfides hollow nanospheres by structural modulation for asymmetric supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 557, 135-143	9.3	38
240	An ultrathin defect-rich Co ₃ O ₄ nanosheet cathode for high-energy and durable aqueous zinc ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21678-21683	13	62
239	Porous molybdenum tungsten oxynitrides enable long-life supercapacitors with high capacitance. <i>Journal of Power Sources</i> , 2019 , 442, 227247	8.9	3
238	Flexible Zn-Ion Batteries: Recent Progresses and Challenges. <i>Small</i> , 2019 , 15, e1804760	11	277
237	Structural and defect engineering of cobaltosic oxide nanoarchitectures as an ultrahigh energy density and super durable cathode for Zn-based batteries. <i>Chemical Science</i> , 2019 , 10, 7600-7609	9.4	28
236	Natural-Cellulose-Nanofibril-Tailored NiFe Nanoparticles for Efficient Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2019 , 6, 3303-3310	4.3	5
235	An ultra-dense NiS ₂ /reduced graphene oxide composite cathode for high-volumetric/gravimetric energy density nickel/zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15654-15661	13	76

234	Oxygen vacancy activated Bi ₂ O ₃ nanoflowers as a high-performance anode for rechargeable alkaline battery. <i>Journal of Power Sources</i> , 2019 , 433, 126684	8.9	43
233	Facile Synthesis of Porous-Carbon Nanoarchitectures as Advanced and Durable Electrodes for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900115	3.1	11
232	Stabilized Molybdenum Trioxide Nanowires as Novel Ultrahigh-Capacity Cathode for Rechargeable Zinc Ion Battery. <i>Advanced Science</i> , 2019 , 6, 1900151	13.6	109
231	Tuning the magnetization dynamics of Tb-based single-chain magnets through substitution on the nitronyl nitroxide radical. <i>Dalton Transactions</i> , 2019 , 48, 8989-8994	4.3	4
230	Three-dimensional "skin-framework" hybrid network as electroactive material platform for high-performance solid-state asymmetric supercapacitor.. <i>RSC Advances</i> , 2019 , 9, 12877-12885	3.7	
229	Nitrogen and Phosphorus Codoped Vertical Graphene/Carbon Cloth as a Binder-Free Anode for Flexible Advanced Potassium Ion Full Batteries. <i>Small</i> , 2019 , 15, e1901285	11	69
228	Hierarchical Porous Ni ₃ S ₄ with Enriched High-Valence Ni Sites as a Robust Electrocatalyst for Efficient Oxygen Evolution Reaction. <i>Advanced Functional Materials</i> , 2019 , 29, 1900315	15.6	169
227	Hierarchically Porous Carbon Plates Derived from Wood as Bifunctional ORR/OER Electrodes. <i>Advanced Materials</i> , 2019 , 31, e1900341	24	191
226	A high over-potential binder-free electrode constructed of Prussian blue and MnO ₂ for high performance aqueous supercapacitors. <i>Nano Research</i> , 2019 , 12, 1061-1069	10	39
225	Ni ₃ S ₂ @PANI core-shell nanosheets as a durable and high-energy binder-free cathode for aqueous rechargeable nickel-zinc batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10629-10635	13	63
224	Electrochemically Activated Nickel-Carbon Composite as Ultrastable Cathodes for Rechargeable Nickel-Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 14854-14861	9.5	34
223	Enhanced catalytic activity of Au core Pd shell Pt cluster trimetallic nanorods for CO reduction.. <i>RSC Advances</i> , 2019 , 9, 10168-10173	3.7	7
222	Engineering high reversibility and fast kinetics of Bi nanoflakes by surface modulation for ultrastable nickel-bismuth batteries. <i>Chemical Science</i> , 2019 , 10, 3602-3607	9.4	24
221	Amino functionalization optimizes potential distribution: A facile pathway towards high-energy carbon-based aqueous supercapacitors. <i>Nano Energy</i> , 2019 , 65, 103987	17.1	39
220	Photocatalytic conversion of lignocellulosic biomass to valuable products. <i>Green Chemistry</i> , 2019 , 21, 4266-4289	10	93
219	Dendrite-Free Zinc Deposition Induced by Multifunctional CNT Frameworks for Stable Flexible Zn-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903675	24	419
218	Resin-Derived Ni ₃ S ₂ /Carbon Nanocomposite for Advanced Rechargeable Aqueous Zn-Based Batteries. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1900183	3.1	6
217	Porous TiO ₂ /CoS core-branch nanosheet arrays with high electrocatalytic activity for a hydrogen evolution reaction. <i>Nanotechnology</i> , 2019 , 30, 404001	3.4	11

216	Boosting Zn-Ion Energy Storage Capability of Hierarchically Porous Carbon by Promoting Chemical Adsorption. <i>Advanced Materials</i> , 2019 , 31, e1904948	24	181
215	Defect Promoted Capacity and Durability of N-MnO Branch Arrays via Low-Temperature NH Treatment for Advanced Aqueous Zinc Ion Batteries. <i>Small</i> , 2019 , 15, e1905452	11	103
214	3D CNTs Networks Enable MnO ₂ Cathodes with High Capacity and Superior Rate Capability for Flexible Rechargeable Zn/MnO ₂ Batteries. <i>Small Methods</i> , 2019 , 3, 1900525	12.8	64
213	Achieving high-energy-density and ultra-stable zinc-ion hybrid supercapacitors by engineering hierarchical porous carbon architecture. <i>Electrochimica Acta</i> , 2019 , 327, 134999	6.7	61
212	Cr-Doped FeNi-P Nanoparticles Encapsulated into N-Doped Carbon Nanotube as a Robust Bifunctional Catalyst for Efficient Overall Water Splitting. <i>Advanced Materials</i> , 2019 , 31, e1900178	24	172
211	Boosting the Oxygen Evolution Reaction Activity of NiFeO Nanosheets by Phosphate Ion Functionalization. <i>ACS Omega</i> , 2019 , 4, 3493-3499	3.9	38
210	Valence and surface modulated vanadium oxide nanowires as new high-energy and durable negative electrode for flexible asymmetric supercapacitors. <i>Energy Storage Materials</i> , 2019 , 22, 410-417	19.4	52
209	Extracting oxygen anions from ZnMn ₂ O ₄ : Robust cathode for flexible all-solid-state Zn-ion batteries. <i>Energy Storage Materials</i> , 2019 , 21, 154-161	19.4	159
208	Enhancing the Capacitive Storage Performance of Carbon Fiber Textile by Surface and Structural Modulation for Advanced Flexible Asymmetric Supercapacitors. <i>Advanced Functional Materials</i> , 2019 , 29, 1806329	15.6	125
207	Three-Dimensional Nitrogen-Doped Graphene Frameworks from Electrochemical Exfoliation of Graphite as Efficient Supercapacitor Electrodes. <i>ChemNanoMat</i> , 2019 , 5, 152-157	3.5	13
206	Ni-based Nanostructures as High-performance Cathodes for Rechargeable Ni/Zn Battery. <i>ChemNanoMat</i> , 2018 , 4, 525-536	3.5	47
205	In Situ Activation of 3D Porous Bi/Carbon Architectures: Toward High-Energy and Stable Nickel-Bismuth Batteries. <i>Advanced Materials</i> , 2018 , 30, e1707290	24	106
204	Facile synthesis of nitrogen-doped porous carbon as robust electrode for supercapacitors. <i>Materials Research Bulletin</i> , 2018 , 101, 140-145	5.1	13
203	Facile preparation of porous carbon nanomaterials for robust supercapacitors. <i>Journal of Materials Research</i> , 2018 , 33, 1142-1154	2.5	3
202	Designing Carbon Based Supercapacitors with High Energy Density: A Summary of Recent Progress. <i>Chemistry - A European Journal</i> , 2018 , 24, 7312-7329	4.8	81
201	Hollow TiO@CoS Core-Branch Arrays as Bifunctional Electrocatalysts for Efficient Oxygen/Hydrogen Production. <i>Advanced Science</i> , 2018 , 5, 1700772	13.6	145
200	Facile activation of commercial Ni foil as robust cathode for advanced rechargeable Ni-Zn battery. <i>Electrochimica Acta</i> , 2018 , 263, 311-317	6.7	33
199	Efficiently texturing hierarchical epoxy layer for smart superhydrophobic surfaces with excellent durability and exceptional stability exposed to fire. <i>Chemical Engineering Journal</i> , 2018 , 348, 212-223	14.7	42

198	Surface modulation of NiCo ₂ O ₄ nanowire arrays with significantly enhanced reactivity for ultrahigh-energy supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 352, 996-1003	14.7	52
197	A highly crystalline bismuth superstructure for ultrastable and high-performance flexible aqueous nickel/bismuth batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8895-8900	13	25
196	Frontispiece: New Insights into the Operating Voltage of Aqueous Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24,	4.8	1
195	Rational design of hybrid Co ₃ O ₄ /graphene films: Free-standing flexible electrodes for high performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 259, 338-347	6.7	64
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191	Tailoring Bandgap of Perovskite BaTiO ₃ by Transition Metals Co-Doping for Visible-Light Photoelectrical Applications: A First-Principles Study. <i>Nanomaterials</i> , 2018 , 8,	5.4	22
190	Isostatic pressure-assisted nanocasting preparation of zeolite templated carbon for high-performance and ultrahigh rate capability supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18938-18947	13	10
189	Fe ₃ O ₄ nanoparticles embedded in cellulose nanofibre/graphite carbon hybrid aerogels as advanced negative electrodes for flexible asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17378-17388	13	30
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181	Hierarchically Interconnected N-Doped Carbon Aerogels Derived from Cellulose Nanofibrils as High Performance and Stable Electrodes for Supercapacitors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23852-23860 ^{3,8,18}		

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44	Large-area manganese oxide nanorod arrays as efficient electrocatalyst for oxygen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13350-13354	6.7	26
43	Facile synthesis of porous 3D CoNiCu nano-network structure and their activity towards hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 18688-18693	6.7	35
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41	Controllable synthesis of porous nickel-cobalt oxide nanosheets for supercapacitors. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13357		188
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37	Redox cycles promoting photocatalytic hydrogen evolution of CeO ₂ nanorods. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5569		107

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29	Electrochemical Assemble of Single Crystalline Twin ZnO Nanorods. <i>Journal of the Electrochemical Society</i> , 2011 , 158, D244	3.9	10
28	Three-dimensional WO ₃ nanostructures on carbon paper: photoelectrochemical property and visible light driven photocatalysis. <i>Chemical Communications</i> , 2011 , 47, 5804-6	5.8	143
27	Controllable Electrochemical Synthesis and Photocatalytic Activity of CeO ₂ Octahedra and Nanotubes. <i>Journal of the Electrochemical Society</i> , 2011 , 158, E41	3.9	23
26	Hydrothermal growth of Sn ⁴⁺ -doped FeS ₂ cubes on FTO substrates and its photoelectrochemical properties. <i>Electrochimica Acta</i> , 2011 , 56, 6932-6939	6.7	35
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23	Facile electrochemical synthesis of single crystalline CeO ₂ octahedrons and their optical properties. <i>Langmuir</i> , 2010 , 26, 7569-73	4	100
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