

Jieshan Qiu

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.

362
papers

23,147
citations

76
h-index

140
g-index

400
ext. papers

28,226
ext. citations

11.5
avg, IF

7.47
L-index

#	Paper	IF	Citations
362	Microstructure regulation of pitch-based soft carbon anodes by iodine treatment towards high-performance potassium-ion batteries.. <i>Journal of Colloid and Interface Science</i> , 2022 , 615, 485-493	9.3	3
361	Thermal-healing of lattice defects for high-energy single-crystalline battery cathodes.. <i>Nature Communications</i> , 2022 , 13, 704	17.4	5
360	Energy-saving Hydrogen Production by Seawater Electrolysis Coupling Sulfion Degradation.. <i>Advanced Materials</i> , 2022 , e2109321	24	16
359	Synthesis, modification strategies and applications of coal-based carbon materials. <i>Fuel Processing Technology</i> , 2022 , 230, 107203	7.2	5
358	A LIS-based all-solid-state battery with high energy and superior safety.. <i>Science Advances</i> , 2022 , 8, eabl8399	33.9	9
357	Mechanochemical coordination self-assembly for Cobalt-based metal-organic framework-derived bifunctional oxygen electrocatalysts.. <i>Journal of Colloid and Interface Science</i> , 2022 , 613, 733-746	9.3	3
356	Interlayer-Expanded Titanate Hierarchical Hollow Spheres Embedded in Carbon Nanofibers for Enhanced Na Storage.. <i>Small</i> , 2022 , e2107890	11	0
355	Freeze-Tolerant Hydrogel Electrolyte with High Strength for Stable Operation of Flexible Zinc-Ion Hybrid Supercapacitors.. <i>Small</i> , 2022 , e2200055	11	2
354	Mismatching integration-enabled strains and defects engineering in LDH microstructure for high-rate and long-life charge storage.. <i>Nature Communications</i> , 2022 , 13, 1409	17.4	7
353	Urea-Mediated Monoliths Made of Nitrogen-Enriched Mesoporous Carbon Nanosheets for High-Performance Aqueous Zinc Ion Hybrid Capacitors.. <i>Small</i> , 2022 , e2108057	11	5
352	Interlayer-Expanded Titanate Hierarchical Hollow Spheres Embedded in Carbon Nanofibers for Enhanced Na Storage (Small 16/2022). <i>Small</i> , 2022 , 18, 2270081	11	
351	Facile synthesis of low-cost MnPO with hollow grape-like clusters for rapid removal uranium from wastewater.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128894	12.8	0
350	Engineering local environment of ruthenium by defect-tuned SnO ₂ over carbon cloth for neutral-media N ₂ electroreduction. <i>Carbon</i> , 2022 , 195, 199-206	10.4	0
349	High-Energy and Safe Lithium Battery Enabled by Solid-state Redox Chemistry in Fireproof Gel Electrolyte.. <i>Advanced Materials</i> , 2022 , e2201981	24	3
348	CNT-Strung LiMn O for Lithium Extraction with High Selectivity and Stability.. <i>Small Methods</i> , 2022 , e2200588	5.88	2
347	Synthesis and structure regulation of armor-wearing biomass-based porous carbon: Suppression the leakage current and self-discharge of supercapacitors. <i>Carbon</i> , 2022 , 196, 136-145	10.4	4
346	Stabilizing MXene by Hydration Chemistry in Aqueous Solution. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26587-26591	16.4	12

345	Stabilizing Interface pH by N-Modified Graphdiyne for Dendrite-Free and High-Rate Aqueous Zn-ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	21
344	SnF ₂ -Catalyzed Formation of Polymerized Dioxolane as Solid Electrolyte and its Thermal Decomposition Behavior. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	7
343	A Low-Temperature Dehydration Carbon-Fixation Strategy for Lignocellulose-Based Hierarchical Porous Carbon for Supercapacitors. <i>ChemSusChem</i> , 2021 ,	8.3	4
342	A durable MXene-based zinc ion hybrid supercapacitor with sulfated polysaccharide reinforced hydrogel/electrolyte. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 23941-23954	13	6
341	Ni@NiN Embedded on Three-Dimensional Carbon Nanosheets for High-Performance Lithium/Sodium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 48536-48545	9.5	6
340	The Mechanism of Piezocatalysis: Energy Band Theory or Screening Charge Effect?. <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202110429	16.4	12
339	A TiCT MXene-Based Energy-Harvesting Soft Actuator with Self-Powered Humidity Sensing and Real-Time Motion Tracking Capability. <i>ACS Nano</i> , 2021 , 15, 16811-16818	16.7	8
338	Boosting the Electrocatalysis of MXenes by Plasmon-Induced Thermalization and Hot-Electron Injection. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9416-9420	16.4	24
337	Perspectives on solution processing of two-dimensional MXenes. <i>Materials Today</i> , 2021 , 48, 214-214	21.8	51
336	A Hierarchical-Structured Impeller with Engineered Pd Nanoparticles Catalyzing Suzuki Coupling Reactions for High-Purity Biphenyl. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17429-17438	9.5	2
335	Recognition of Water-Induced Effects toward Enhanced Interaction between Catalyst and Reactant in Alcohol Oxidation. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6071-6078	16.4	14
334	Design and Fabrication of Hierarchical NiCoP-MOF Heterostructure with Enhanced Pseudocapacitive Properties. <i>Small</i> , 2021 , 17, e2100353	11	31
333	The Electrolysis of Anti-Perovskite Li ₂ OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie</i> , 2021 , 133, 13123-13130	3.6	2
332	The Electrolysis of Anti-Perovskite Li OHCl for Prelithiation of High-Energy-Density Batteries. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13013-13020	16.4	6
331	Highly efficient & economic synthesis of CoS _{1.097} /nitrogen-doped carbon for enhanced triiodide reduction. <i>Carbon</i> , 2021 , 174, 445-450	10.4	3
330	Perovskite Oxide Catalysts for Advanced Oxidation Reactions. <i>Advanced Functional Materials</i> , 2021 , 31, 2102089	15.6	29
329	N, P co-doped hierarchical porous carbon from rapeseed cake with enhanced supercapacitance. <i>Renewable Energy</i> , 2021 , 170, 188-196	8.1	36
328	Toward an Understanding of the Enhanced CO ₂ Electroreduction in NaCl Electrolyte over CoPc Molecule-Implanted Graphitic Carbon Nitride Catalyst. <i>Advanced Energy Materials</i> , 2021 , 11, 2100075	21.8	8

- 327 Hydrogen-Bonding Crosslinking MXene to Highly Robust and Ultralight Aerogels for Strengthening Lithium Metal Anode. *Small Science*, **2021**, 1, 2100021 19
- 326 Nitrogen and phosphorus dual-doped porous carbons for high-rate potassium ion batteries. *Carbon*, **2021**, 179, 33-41 10.4 25
- 325 Electrochemical ammonia synthesis: Mechanistic understanding and catalyst design. *CheM*, **2021**, 7, 1708-1754 7.0
- 324 Energy-saving hydrogen production by chlorine-free hybrid seawater splitting coupling hydrazine degradation. *Nature Communications*, **2021**, 12, 4182 17.4 38
- 323 Oriented Nanosheet-Assembled CoNi-LDH Cages with Efficient Ion Diffusion for Quasi-Solid-State Hybrid Supercapacitors. *Inorganic Chemistry*, **2021**, 60, 12197-12205 5.1 7
- 322 Toward commercial-level mass-loading electrodes for supercapacitors: opportunities, challenges and perspectives. *Energy and Environmental Science*, **2021**, 14, 576-601 35.4 56
- 321 Recent research advances of self-discharge in supercapacitors: Mechanisms and suppressing strategies. *Journal of Energy Chemistry*, **2021**, 58, 94-109 12 32
- 320 A C-S-C Linkage-Triggered Ultrahigh Nitrogen-Doped Carbon and the Identification of Active Site in Triiodide Reduction. *Angewandte Chemie - International Edition*, **2021**, 60, 3587-3595 16.4 9
- 319 Operando Tailoring of Defects and Strains in Corrugated Ni(OH) Nanosheets for Stable and High-Rate Energy Storage. *Advanced Materials*, **2021**, 33, e2006147 24 21
- 318 Interface Inversion: A Promising Strategy to Configure Ultrafine Nanoparticles over Graphene for Fast Sodium Storage. *Small*, **2021**, 17, e2005119 11 3
- 317 Recent advances in innovative strategies for the CO₂ electroreduction reaction. *Energy and Environmental Science*, **2021**, 14, 765-780 35.4 61
- 316 High-performance metal/oxide batteries enabled by a bifunctional dendrite-free Li/Na alloy anode. *Journal of Materials Chemistry A*, **2021**, 9, 538-545 13 5
- 315 A C-S-C Linkage-Triggered Ultrahigh Nitrogen-Doped Carbon and the Identification of Active Site in Triiodide Reduction. *Angewandte Chemie*, **2021**, 133, 3631-3639 3.6 1
- 314 A quasi-solid-state rechargeable cell with high energy and superior safety enabled by stable redox chemistry of Li₂S in gel electrolyte. *Energy and Environmental Science*, **2021**, 14, 2278-2290 35.4 13
- 313 A closed-loop and scalable process for the production of biomass-derived superhydrophilic carbon for supercapacitors. *Green Chemistry*, **2021**, 23, 3400-3409 10 16
- 312 Energy Accumulation Enabling Fast Synthesis of Intercalated Graphite and Operando Decoupling for Lithium Storage. *Advanced Functional Materials*, **2021**, 31, 2009801 15.6 2
- 311 A nickel-nitrogen-doped carbon foam as monolithic electrode for highly efficient CO₂ electroreduction. *Journal of CO₂ Utilization*, **2021**, 49, 101549 7.6 3
- 310 Carbon-enabled microwave chemistry: From interaction mechanisms to nanomaterial manufacturing. *Nano Energy*, **2021**, 85, 106027 17.1 17

309	Activity descriptor of Ni,N-Codoped carbon electrocatalyst in CO ₂ electroreduction reaction. <i>Chemical Engineering Journal</i> , 2021 , 131965	14.7	2
308	Multiphase, Multiscale Chemomechanics at Extreme Low Temperatures: Battery Electrodes for Operation in a Wide Temperature Range. <i>Advanced Energy Materials</i> , 2021 , 11, 2102122	21.8	10
307	Electrolyte/Structure-Dependent Cocktail Mediation Enabling High-Rate/Low-Plateau Metal Sulfide Anodes for Sodium Storage. <i>Nano-Micro Letters</i> , 2021 , 13, 178	19.5	2
306	Operando leaching of pre-incorporated Al and mechanism in transition-metal hybrids on carbon substrates for enhanced charge storage. <i>Matter</i> , 2021 , 4, 2902-2918	12.7	5
305	Boosting zinc-ion storage capability by engineering hierarchically porous nitrogen-doped carbon nanocage framework. <i>Journal of Power Sources</i> , 2021 , 506, 230224	8.9	9
304	Bimetallic Zn/Co-ZIF tubular membrane for highly efficient pervaporation separation of Methanol/MTBE mixture. <i>Journal of Membrane Science</i> , 2021 , 638, 119676	9.6	6
303	Mechanochemistry-driven prelinking enables ultrahigh nitrogen-doping in carbon materials for triiodide reduction. <i>Nano Energy</i> , 2021 , 89, 106332	17.1	2
302	Three-dimensional hierarchical Na ₃ Fe ₂ (PO ₄) ₃ /C with superior and fast sodium uptake for efficient hybrid capacitive deionization. <i>Desalination</i> , 2021 , 520, 115341	10.3	10
301	A tuned Lewis acidic catalyst guided by hard-soft acid-base theory to promote N ₂ electroreduction. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 13036-13043	13	7
300	Strategies to suppress hydrogen evolution for highly selective electrocatalytic nitrogen reduction: challenges and perspectives. <i>Energy and Environmental Science</i> , 2021 , 14, 1176-1193	35.4	74
299	Graphene Oxide-Tuned MoS ₂ with an Expanded Interlayer for Efficient Hybrid Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 9690-9697	8.3	19
298	Insights into the Anchoring of Polysulfides and Catalytic Performance by Metal Phthalocyanine Covalent Organic Frameworks as the Cathode in Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 10185-10192	8.3	19
297	Synergizing Layered Carbon and Gel Electrolyte for Efficient Energy Storage. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 4207-4215	8.3	12
296	Synthesis of highly oriented stacked tile-like carbon sheet for potassium storage. <i>Materials Letters</i> , 2020 , 277, 128134	3.3	3
295	Dual Hybrid Effect Endowing Nickel-Cobalt Sulfides with Enhanced Cycling Stability for Asymmetrical Supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 6977-6984	6.1	10
294	General synthesis of MXene by green etching chemistry of fluoride-free Lewis acidic melts. <i>Rare Metals</i> , 2020 , 39, 1237-1238	5.5	17
293	Fabrication of Porous Carbon Nanosheets with the Engineered Graphitic Structure for Electrochemical Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 13623-13630	3.9	4
292	Boosting charge storage in 1D manganese oxide-carbon composite by phosphorus-assisted structural modification for supercapacitor applications. <i>Energy Storage Materials</i> , 2020 , 31, 172-180	19.4	16

291	Effective Fixation of Carbon in g-C N Enabled by Mg-Induced Selective Reconstruction. <i>Small</i> , 2020 , 16, e1907164	11	11
290	Multilevel Hollow MXene Tailored Low-Pt Catalyst for Efficient Hydrogen Evolution in Full-pH Range and Seawater. <i>Advanced Functional Materials</i> , 2020 , 30, 1910028	15.6	66
289	Operando Revealing Dynamic Reconstruction of NiCo Carbonate Hydroxide for High-Rate Energy Storage. <i>Joule</i> , 2020 , 4, 673-687	27.8	48
288	Achieving Multiple and Tunable Ratios of Syngas to Meet Various Downstream Industrial Processes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3328-3335	8.3	6
287	Achieving efficient electroreduction CO ₂ to CO in a wide potential range over pitch-derived ordered mesoporous carbon with engineered Ni-N sites. <i>Journal of CO₂ Utilization</i> , 2020 , 38, 212-219	7.6	12
286	DBD plasma-tuned functionalization of edge-enriched graphene nanoribbons for high performance supercapacitors. <i>Electrochimica Acta</i> , 2020 , 337, 135741	6.7	6
285	Metal-Tuned W18O49 for Efficient Electrocatalytic N ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 2957-2963	8.3	23
284	Silica-Assisted Fabrication of N-doped Porous Carbon for Efficient Electrocatalytic Nitrogen Fixation. <i>ChemCatChem</i> , 2020 , 12, 3453-3458	5.2	3
283	3D N,O-Codoped Egg-Box-Like Carbons with Tuned Channels for High Areal Capacitance Supercapacitors. <i>Nano-Micro Letters</i> , 2020 , 12, 82	19.5	47
282	3D nickel-cobalt phosphide heterostructure for high-performance solid-state hybrid supercapacitors. <i>Journal of Power Sources</i> , 2020 , 467, 228324	8.9	50
281	Electrocatalytic Oxidation of Glycerol to Formic Acid by CuCo ₂ O ₄ Spinel Oxide Nanostructure Catalysts. <i>ACS Catalysis</i> , 2020 , 10, 6741-6752	13.1	77
280	Rapid and energy-efficient microwave pyrolysis for high-yield production of highly-active bifunctional electrocatalysts for water splitting. <i>Energy and Environmental Science</i> , 2020 , 13, 545-553	35.4	99
279	Promoting the electroreduction of CO ₂ with oxygen vacancies on a plasma-activated SnOx/carbon foam monolithic electrode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1779-1786	13	28
278	Ultrafast construction of interfacial sites by wet chemical etching to enhance electrocatalytic oxygen evolution. <i>Nano Energy</i> , 2020 , 69, 104367	17.1	31
277	Gravity field-mediated synthesis of carbon-conjugated quantum dots with tunable defective density for enhanced triiodide reduction. <i>Nano Energy</i> , 2020 , 69, 104377	17.1	12
276	Monolithic carbon nanosheets with rich pores for high-capacitance supercapacitor. <i>Journal of Porous Materials</i> , 2020 , 27, 487-494	2.4	4
275	Boosting Supercapacitor Performance of Graphene by Coupling with Nitrogen-Doped Hollow Carbon Frameworks. <i>Chemistry - A European Journal</i> , 2020 , 26, 2897-2903	4.8	13
274	In Situ Growing Chromium Oxynitride Nanoparticles on Carbon Nanofibers to Stabilize Lithium Deposition for Lithium Metal Anodes. <i>Small</i> , 2020 , 16, e2003827	11	9

273	Ni, Co hydroxide triggers electrocatalytic production of high-purity benzoic acid over 400 mA cm ² . <i>Energy and Environmental Science</i> , 2020 , 13, 4990-4999	35.4	45
272	Moss-Covered Rock-like Hybrid Porous Carbons with Enhanced Electrochemical Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 3065-3071	8.3	24
271	Engineering Kinetics-Favorable Carbon Sheets with an Intrinsic Network for a Superior Supercapacitor Containing a Dual Cross-linked Hydrogel Electrolyte. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 53164-53173	9.5	11
270	Decoupling the role of carbon counterparts in Pickering emulsifier for an enhanced selective oxidation of benzyl alcohol. <i>Green Chemistry</i> , 2020 , 22, 5711-5721	10	4
269	Full Bulk-Structure Reconstruction into Amorphized Cobalt-Iron Oxyhydroxide Nanosheet Electrocatalysts for Greatly Improved Electrocatalytic Activity. <i>Small Methods</i> , 2020 , 4, 2000546	12.8	19
268	Hydrogen-Bonding Triggered Assembly to Configure Hollow Carbon Nanosheets for Highly Efficient Tri-Iodide Reduction. <i>Advanced Functional Materials</i> , 2020 , 30, 2006270	15.6	2
267	Mutual modulation between surface chemistry and bulk microstructure within secondary particles of nickel-rich layered oxides. <i>Nature Communications</i> , 2020 , 11, 4433	17.4	34
266	Ultrafast Construction of Oxygen-Containing Scaffold over Graphite for Trapping Ni into Single Atom Catalysts. <i>ACS Nano</i> , 2020 , 14, 11662-11669	16.7	9
265	Nitrogen-doped hierarchically porous carbon nanosheets derived from polymer/graphene oxide hydrogels for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2020 , 560, 69-76	8.3	69
264	NH ₄ V ₄ O ₁₀ /rGO Composite as a high-performance electrode material for hybrid capacitive deionization. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 303-311	4.2	12
263	3D Carbon Frameworks for Ultrafast Charge/Discharge Rate Supercapacitors with High Energy-Power Density. <i>Nano-Micro Letters</i> , 2020 , 13, 8	19.5	25
262	Is It Appropriate to Use the Nafion Membrane in Electrocatalytic N ₂ Reduction?. <i>Small Methods</i> , 2019 , 3, 1900474	12.8	33
261	Inverted Capacitive Deionization with Highly Enhanced Stability Performance Utilizing Ionic Liquid-Functionalized Carbon Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15715-15722	8.3	15
260	High energy-power Zn-ion hybrid supercapacitors enabled by layered B/N co-doped carbon cathode. <i>Nano Energy</i> , 2019 , 66, 104132	17.1	178
259	Design Principles for Covalent Organic Frameworks to Achieve Strong Heteroatom-Synergistic Effect on Anchoring Polysulfides for Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7445-7451	6.4	12
258	Cellular carbon-wrapped FeSe ₂ nanocavities with ultrathin walls and multiple rooms for ion diffusion-confined ultrafast sodium storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4469-4479	13	67
257	Multilevel Coupled Hybrids Made of Porous Cobalt Oxides and Graphene for High-Performance Lithium Storage. <i>Chemistry - A European Journal</i> , 2019 , 25, 5527-5533	4.8	5
256	Self-Templating Synthesis of 3D Hollow Tubular Porous Carbon Derived from Straw Cellulose Waste with Excellent Performance for Supercapacitors. <i>ChemSusChem</i> , 2019 , 12, 1390-1400	8.3	42

255	Activation of transition metal oxides by in-situ electro-regulated structure-reconstruction for ultra-efficient oxygen evolution. <i>Nano Energy</i> , 2019 , 58, 778-785	17.1	57
254	A Universal Converse Voltage Process for Triggering Transition Metal Hybrids In Situ Phase Restruction toward Ultrahigh-Rate Supercapacitors. <i>Advanced Materials</i> , 2019 , 31, e1901241	24	48
253	Polyethyleneimine-Mediated Fabrication of Two-Dimensional Cobalt Sulfide/Graphene Hybrid Nanosheets for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 26235-26242	9.5	25
252	Microwave-Assisted Ultrafast Synthesis of Molybdenum Carbide Nanoparticles Grown on Carbon Matrix for Efficient Hydrogen Evolution Reaction. <i>Small Methods</i> , 2019 , 3, 1900259	12.8	30
251	Boron-nitride-carbon nanosheets with different pore structure and surface properties for capacitive deionization. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 604-612	9.3	18
250	Nitrogen-doped porous carbon from coal for high efficiency CO ₂ electrocatalytic reduction. <i>Carbon</i> , 2019 , 151, 46-52	10.4	50
249	Membrane-Free Hybrid Capacitive Deionization System Based on Redox Reaction for High-Efficiency NaCl Removal. <i>Environmental Science & Technology</i> , 2019 , 53, 6292-6301	10.3	66
248	A Phase Transformation-Resistant Electrode Enabled by a MnO ₂ -Confined Effect for Enhanced Energy Storage. <i>Advanced Functional Materials</i> , 2019 , 29, 1901342	15.6	12
247	Phase controllable synthesis of Ni ²⁺ post-modified CoP nanowire for enhanced oxygen evolution. <i>Nano Energy</i> , 2019 , 62, 136-143	17.1	49
246	High-energy quasi-solid-state supercapacitors enabled by carbon nanofoam from biowaste and high-voltage inorganic gel electrolyte. <i>Carbon</i> , 2019 , 149, 273-280	10.4	57
245	Design and fabrication of carbon dots for energy conversion and storage. <i>Chemical Society Reviews</i> , 2019 , 48, 2315-2337	58.5	363
244	Liquid Exfoliation of Two-Dimensional PbI ₂ Nanosheets for Ultrafast Photonics. <i>ACS Photonics</i> , 2019 , 6, 1051-1057	6.3	20
243	Highly stable lithium-sulfur batteries based on p-n heterojunctions embedded on hollow sheath carbon propelling polysulfides conversion. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9230-9240	13	43
242	A recyclable route to produce biochar with a tailored structure and surface chemistry for enhanced charge storage. <i>Green Chemistry</i> , 2019 , 21, 2095-2103	10	16
241	Electrochemically Driven Coordination Tuning of FeOOH Integrated on Carbon Fiber Paper for Enhanced Oxygen Evolution. <i>Small</i> , 2019 , 15, e1901015	11	36
240	Efficient Electrochemical Reduction of CO ₂ by Ni Catalysts with Tunable Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 15030-15035	8.3	25
239	Facile Fabrication of NiCoAl-Layered Metal Oxide/Graphene Nanosheets for Efficient Capacitive Deionization Defluorination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 31200-31209	9.5	26
238	Low-Temperature Fast Production of Carbon and Acetic Acid Dual-Promoted Pd/C Catalysts. <i>Chemistry - A European Journal</i> , 2019 , 25, 13683-13687	4.8	1

237	High-Performance Co-Based ZIF-67 Tubular Membrane Achieved by ZnO-Induced Synthesis for Highly Efficient Pervaporation Separation of Methanol/Methyl tert-Butyl Ether Mixture. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 15297-15306	3.9	17
236	Porous polyaniline arrays oriented on functionalized carbon cloth as binder-free electrode for flexible supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113348	4.1	13
235	Decoupling and correlating the ion transport by engineering 2D carbon nanosheets for enhanced charge storage. <i>Nano Energy</i> , 2019 , 64, 103921	17.1	44
234	ZIF-67-Derived Cobalt/Nitrogen-Doped Carbon Composites for Efficient Electrocatalytic N ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6071-6077	6.1	34
233	Formation of two-dimensional transition metal oxide nanosheets with nanoparticles as intermediates. <i>Nature Materials</i> , 2019 , 18, 970-976	27	114
232	Insight into the impact of surface hydrothermal carbon layer on photocatalytic performance of ZnO nanowire. <i>Applied Catalysis A: General</i> , 2019 , 583, 117145	5.1	9
231	Surface-to-Bulk Redox Coupling through Thermally Driven Li Redistribution in Li- and Mn-Rich Layered Cathode Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12079-12086	16.4	38
230	Fabrication of oriented metal-organic framework nanosheet membrane coated stainless steel meshes for highly efficient oil/water separation. <i>Separation and Purification Technology</i> , 2019 , 229, 115833	8.3	29
229	Engineering Multifunctional Collaborative Catalytic Interface Enabling Efficient Hydrogen Evolution in All pH Range and Seawater. <i>Advanced Energy Materials</i> , 2019 , 9, 1901333	21.8	98
228	Nitrogen-doped tubular carbon foam electrodes for efficient electroreduction of CO ₂ to syngas with potential-independent CO/H ₂ ratios. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18852-18860	13	32
227	Enhancing the capacitive deionization performance of NaMnO ₂ by interface engineering and redox-reaction. <i>Environmental Science: Nano</i> , 2019 , 6, 2379-2388	7.1	49
226	A hierarchically porous and hydrophilic 3D nickel/iron/MXene electrode for accelerating oxygen and hydrogen evolution at high current densities. <i>Nano Energy</i> , 2019 , 63, 103880	17.1	149
225	Biomass-based Hierarchical Porous Carbon for Supercapacitors: Effect of Aqueous and Organic Electrolytes on the Electrochemical Performance. <i>ChemSusChem</i> , 2019 , 12, 5099-5110	8.3	29
224	A Molecular-Cage Strategy Enabling Efficient Chemisorption/Electrocatalytic Interface in Nanostructured Li ₂ S Cathode for Li Metal-Free Rechargeable Cells with High Energy. <i>Advanced Functional Materials</i> , 2019 , 29, 1905986	15.6	33
223	Porosity-Induced High Selectivity for CO ₂ Electroreduction to CO on Fe-Doped ZIF-Derived Carbon Catalysts. <i>ACS Catalysis</i> , 2019 , 9, 11579-11588	13.1	52
222	Hierarchical Bimetallic Hydroxides Built by Porous Nanowire-Lapped Bundles with Ultrahigh Areal Capacity for Stable Hybrid Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900959	4.6	7
221	Heterogeneous Ligand-Free Rhodium Oxide Catalyst Embedded within Zeolitic Microchannel to Enhance Regioselectivity in Hydroformylation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21285-21295	3.9	14
220	Photocatalytic Fixation of Nitrogen to Ammonia by Single Ru Atom Decorated TiO ₂ Nanosheets. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 6813-6820	8.3	85

219	Restructuring of CuO to CuO@Cu-Metal-Organic Frameworks for Selective Electrochemical Reduction of CO. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9904-9910	9.5	95
218	Sustainable biowaste strategy to fabricate dual-doped carbon frameworks with remarkable performance for flexible solid-state supercapacitors. <i>Journal of Power Sources</i> , 2019 , 418, 112-121	8.9	46
217	Implanting CNT Forest onto Carbon Nanosheets as Multifunctional Hosts for High-Performance Lithium Metal Batteries. <i>Small Methods</i> , 2019 , 3, 1800546	12.8	27
216	Designed synthesis of cobalt nanoparticles embedded carbon nanocages as bifunctional electrocatalysts for oxygen evolution and reduction. <i>Carbon</i> , 2019 , 144, 492-499	10.4	25
215	Ultrasound-Assisted Nitrogen and Boron Codoping of Graphene Oxide for Efficient Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 3434-3442	8.3	27
214	Theoretical and Experimental Insights into the Effects of Oxygen-Containing Species within CNTs toward Triiodide Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7527-7534	8.3	6
213	Strategies and insights towards the intrinsic capacitive properties of MnO ₂ for supercapacitors: Challenges and perspectives. <i>Nano Energy</i> , 2019 , 57, 459-472	17.1	144
212	Accelerating polysulfide redox conversion on bifunctional electrocatalytic electrode for stable Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 20, 98-107	19.4	50
211	Cobalt nitride nanoparticles embedded in porous carbon nanosheet arrays propelling polysulfides conversion for highly stable lithium-sulfur batteries. <i>Energy Storage Materials</i> , 2019 , 21, 210-218	19.4	51
210	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4682-4686	16.4	101
209	Scrutinizing Defects and Defect Density of Selenium-Doped Graphene for High-Efficiency Triiodide Reduction in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2018 , 130, 4772-4776	3.6	20
208	Ultrastable and high-capacity carbon nanofiber anodes derived from pitch/polyacrylonitrile for flexible sodium-ion batteries. <i>Carbon</i> , 2018 , 135, 187-194	10.4	54
207	Coaxial heterojunction carbon nanofibers with charge transport and electrocatalytic reduction phases for high performance dye-sensitized solar cells.. <i>RSC Advances</i> , 2018 , 8, 7040-7043	3.7	2
206	Rational design of high-performance sodium-ion battery anode by molecular engineering of coal tar pitch. <i>Chemical Engineering Journal</i> , 2018 , 342, 52-60	14.7	51
205	An electrocatalyst with anti-oxidized capability for overall water splitting. <i>Nano Research</i> , 2018 , 11, 3411-3419	13.4	18
204	Superhierarchical Cobalt-Embedded Nitrogen-Doped Porous Carbon Nanosheets as Two-in-One Hosts for High-Performance Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2018 , 30, e1706895	24	235
203	High performance concentration capacitors with graphene hydrogel electrodes for harvesting salinity gradient energy. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4981-4987	13	23
202	Highly Stable Hybrid Capacitive Deionization with a MnO ₂ Anode and a Positively Charged Cathode. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 98-102	11	90

201	Microporous MOFs Engaged in the Formation of Nitrogen-Doped Mesoporous Carbon Nanosheets for High-Rate Supercapacitors. <i>Chemistry - A European Journal</i> , 2018 , 24, 2681-2686	4.8	16
200	Ultra-high Rate and Long-Life Sodium-Ion Batteries Enabled by Engineered Surface and Near-Surface Reactions. <i>Advanced Materials</i> , 2018 , 30, 1702486	24	130
199	Nano-sized ZIF-8 anchored polyelectrolyte-decorated silica for Nitrogen-Rich Hollow Carbon Shell Frameworks toward alkaline and neutral supercapacitors. <i>Carbon</i> , 2018 , 136, 176-186	10.4	50
198	GO-guided direct growth of highly oriented metal-organic framework nanosheet membranes for H ₂ /CO separation. <i>Chemical Science</i> , 2018 , 9, 4132-4141	9.4	76
197	Calcined MgAl-Layered Double Hydroxide/Graphene Hybrids for Capacitive Deionization. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6417-6425	3.9	43
196	MXene-Based Electrode with Enhanced Pseudocapacitance and Volumetric Capacity for Power-Type and Ultra-Long Life Lithium Storage. <i>ACS Nano</i> , 2018 , 12, 3928-3937	16.7	120
195	Nanopore-confined g-C ₃ N ₄ nanodots in N, S co-doped hollow porous carbon with boosted capacity for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7133-7141	13	67
194	Wrinkled porous carbon nanosheets from methylnaphthalene oil for high-performance supercapacitors. <i>Fuel Processing Technology</i> , 2018 , 175, 10-16	7.2	31
193	Growth of ZnO self-converted 2D nanosheet zeolitic imidazolate framework membranes by an ammonia-assisted strategy. <i>Nano Research</i> , 2018 , 11, 1850-1860	10	50
192	Efficient CO ₂ electroreduction over pyridinic-N active sites highly exposed on wrinkled porous carbon nanosheets. <i>Chemical Engineering Journal</i> , 2018 , 351, 613-621	14.7	67
191	Aggregation-Resistant 3D MXene-Based Architecture as Efficient Bifunctional Electrocatalyst for Overall Water Splitting. <i>ACS Nano</i> , 2018 , 12, 8017-8028	16.7	258
190	Electrospun nitrogen-doped carbon nanofibers with tuned microstructure and enhanced lithium storage properties. <i>Carbon</i> , 2018 , 139, 716-724	10.4	29
189	Surface modification of biomass-derived hard carbon by grafting porous carbon nanosheets for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15954-15960	13	159
188	Boosting electrocatalytic oxygen evolution by synergistically coupling layered double hydroxide with MXene. <i>Nano Energy</i> , 2018 , 44, 181-190	17.1	304
187	Structural characterization and properties of ODPADDA polyetherimide membranes modified by ethylene glycol. <i>Polymer Bulletin</i> , 2018 , 75, 5825-5842	2.4	
186	Graphite-graphene architecture stabilizing ultrafine Co ₃ O ₄ nanoparticles for superior oxygen evolution. <i>Carbon</i> , 2018 , 140, 17-23	10.4	16
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184	A hydrogel-mediated scalable strategy toward core-shell polyaniline/poly(acrylic acid)-modified carbon nanotube hybrids as efficient electrodes for supercapacitor applications. <i>Applied Surface Science</i> , 2018 , 436, 189-197	6.7	17

183	Template-free synthesis of interconnected carbon nanosheets via cross-linking coupled with annealing for high-efficiency triiodide reduction. <i>Green Chemistry</i> , 2018 , 20, 250-254	10	6
182	Synergies between Unsaturated Zn/Cu Doping Sites in Carbon Dots Provide New Pathways for Photocatalytic Oxidation. <i>ACS Catalysis</i> , 2018 , 8, 747-753	13.1	42
181	Nitrogen-doped porous carbon with well-balanced charge conduction and electrocatalytic activity for dye-sensitized solar cells. <i>Carbon</i> , 2018 , 128, 201-204	10.4	16
180	New Insights into the Anchoring Mechanism of Polysulfides inside Nanoporous Covalent Organic Frameworks for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43896-43903	9.5	27
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178	Carbon-supported Ni nanoparticles for efficient CO electroreduction. <i>Chemical Science</i> , 2018 , 9, 8775-8780	11.6	116
177	Phosphate Species up to 70% Mass Ratio for Enhanced Pseudocapacitive Properties. <i>Small</i> , 2018 , 14, e1803811	11	19
176	Surface-Confined Fabrication of Ultrathin Nickel Cobalt-Layered Double Hydroxide Nanosheets for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1803272	15.6	149
175	Ultrahigh-Capacity and Long-Life Lithium-Metal Batteries Enabled by Engineering Carbon Nanofiber-Stabilized Graphene Aerogel Film Host. <i>Small</i> , 2018 , 14, e1803310	11	36
174	A simple one-step drop-coating approach on fabrication of supported carbon molecular sieve membranes with high gas separation performance. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2018 , 13, e2251	1.3	2
173	Pitch-derived N-doped porous carbon nanosheets with expanded interlayer distance as high-performance sodium-ion battery anodes. <i>Fuel Processing Technology</i> , 2018 , 177, 328-335	7.2	62
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163	Stabilizing the MXenes by Carbon Nanoplatting for Developing Hierarchical Nanohybrids with Efficient Lithium Storage and Hydrogen Evolution Capability. <i>Advanced Materials</i> , 2017 , 29, 1607017	24	380
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152	Engineering hollow polyhedrons structured from carbon-coated CoSe ₂ nanospheres bridged by CNTs with boosted sodium storage performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13591-13600 ¹³		160
151	A superhydrophilic nanoglue for stabilizing metal hydroxides onto carbon materials for high-energy and ultralong-life asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2017 , 10, 1958-1965	35.4	228
150	A Polymetallic Metal-Organic Framework-Derived Strategy toward Synergistically Multidoped Metal Oxide Electrodes with Ultralong Cycle Life and High Volumetric Capacity. <i>Advanced Functional Materials</i> , 2017 , 27, 1605332	15.6	90
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145	Sodium-Ion Batteries: Ultrafine MoO ₂ -Carbon Microstructures Enable Ultralong-Life Power-Type Sodium Ion Storage by Enhanced Pseudocapacitance (Adv. Energy Mater. 15/2017). <i>Advanced Energy Materials</i> , 2017 , 7,	21.8	2
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140	Starch Derived Porous Carbon Nanosheets for High-Performance Photovoltaic Capacitive Deionization. <i>Environmental Science & Technology</i> , 2017 , 51, 9244-9251	10.3	93
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132	A Top-Down Strategy toward 3D Carbon Nanosheet Frameworks Decorated with Hollow Nanostructures for Superior Lithium Storage. <i>Advanced Functional Materials</i> , 2016 , 26, 7590-7598	15.6	168
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128	Strongly Coupled Architectures of Cobalt Phosphide Nanoparticles Assembled on Graphene as Bifunctional Electrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2016 , 3, 719-725	4.3	75
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125	Chemically grafting graphene oxide to B,N co-doped graphene via ionic liquid and their superior performance for triiodide reduction. <i>Nano Energy</i> , 2016 , 25, 184-192	17.1	75
124	CoMn Layered Double Hydroxides/Carbon Nanotubes Architectures as High-Performance Electrocatalysts for the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 2016 , 3, 906-912	4.3	58
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122	Graphene-mediated highly-dispersed MoS ₂ nanosheets with enhanced triiodide reduction activity for dye-sensitized solar cells. <i>Carbon</i> , 2016 , 100, 474-483	10.4	88
121	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. <i>Energy and Environmental Science</i> , 2016 , 9, 1299-1307	35.4	540
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117	Electrospun porous hierarchical carbon nanofibers with tailored structures for supercapacitors and capacitive deionization. <i>New Journal of Chemistry</i> , 2016 , 40, 3786-3792	3.6	43
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112	Electrocatalysts: Mass and Charge Transfer Coenhanced Oxygen Evolution Behaviors in CoFe-Layered Double Hydroxide Assembled on Graphene (Adv. Mater. Interfaces 7/2016). <i>Advanced Materials Interfaces</i> , 2016 , 3,	4.6	3

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109	Strongly Coupled Architectures of Cobalt Phosphide Nanoparticles Assembled on Graphene as Bifunctional Electrocatalysts for Water Splitting. <i>ChemElectroChem</i> , 2016 , 3, 681-681	4.3	
108	Ultrafine Fe ₃ O ₄ Quantum Dots on Hybrid Carbon Nanosheets for Long-Life, High-Rate Alkali-Metal Storage. <i>ChemElectroChem</i> , 2016 , 3, 38-44	4.3	29
107	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. <i>Advanced Functional Materials</i> , 2016 , 26, 111-119	15.6	492
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104	Construction of 3D nanostructure hierarchical porous graphitic carbons by charge-induced self-assembly and nanocrystal-assisted catalytic graphitization for supercapacitors. <i>Chemical Communications</i> , 2016 , 52, 6673-6	5.8	92
103	NiCo-layered double hydroxides vertically assembled on carbon fiber papers as binder-free high-active electrocatalysts for water oxidation. <i>Carbon</i> , 2016 , 110, 1-7	10.4	137
102	Bio-inspired immobilization of metal oxides on monolithic microreactor for continuous Knoevenagel reaction. <i>Journal of Colloid and Interface Science</i> , 2016 , 481, 100-6	9.3	12
101	Bridging of Ultrathin NiCo ₂ O ₄ Nanosheets and Graphene with Polyaniline: A Theoretical and Experimental Study. <i>Chemistry of Materials</i> , 2016 , 28, 5855-5863	9.6	96
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97	Asymmetric capacitive deionization utilizing nitric acid treated activated carbon fiber as the cathode. <i>Electrochimica Acta</i> , 2015 , 176, 426-433	6.7	104
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87	Compressible graphene aerogel supported CoO nanostructures as a binder-free electrode for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2015 , 5, 8929-8932	3.7	31
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85	An acid-free medium growth of rutile TiO \square nanorods arrays and their application in perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 729-733	7.1	45
84	Block copolymer-guided fabrication of shuttle-like polyaniline nanoflowers with radiating whiskers for application in supercapacitors. <i>RSC Advances</i> , 2015 , 5, 1016-1023	3.7	17
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82	Thin-Sheet Carbon Nanomesh with an Excellent Electrocapacitive Performance. <i>Advanced Functional Materials</i> , 2015 , 25, 5420-5427	15.6	125
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