

Zhong-Shuai Wu

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.

214
papers

30,317
citations

68
h-index

173
g-index

234
ext. papers

34,701
ext. citations

14.3
avg, IF

7.53
L-index

#	Paper	IF	Citations
214	Phosphorus doping and phosphates coating for nickel molybdate/nickel molybdate hydrate enabling efficient overall water splitting. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 384-392	9.3	3
213	A safe, low-cost and high-efficiency presodiation strategy for pouch-type sodium-ion capacitors with high energy density. <i>Journal of Energy Chemistry</i> , 2022 , 64, 442-450	12	13
212	K-Functionalized Carbon Quantum Dots-Induced Interface Assembly of Carbon Nanocages for Ultrastable Potassium Storage Performance.. <i>Small Methods</i> , 2022 , e2101627	12.8	0
211	2D Cu ₂ Se@graphene multifunctional interlayer boosting polysulfide rapid conversion and uniform Li ₂ S nucleation for high performance LiS batteries. <i>2D Materials</i> , 2022 , 9, 025028	5.9	
210	1.6V high-voltage aqueous symmetric micro-pseudocapacitors based on two-dimensional polypyrrole/graphene nanosheets. <i>Carbon</i> , 2022 , 194, 240-247	10.4	0
209	Digital Microscale Electrochemical Energy Storage Devices for a Fully Connected and Intelligent World. <i>ACS Energy Letters</i> , 2022 , 7, 267-281	20.1	3
208	Rapid fabrication of high-quality few-layer graphene through gel-phase electrochemical exfoliation of graphite for high-energy-density ionogel-based micro-supercapacitors. <i>Carbon</i> , 2022 , 196, 203-212	10.4	2
207	Multi-Layer Printable Lithium Ion Micro-Batteries with Remarkable Areal Energy Density and Flexibility for Wearable Smart Electronics. <i>Small</i> , 2021 , e2104506	11	2
206	Ultrahigh-rate and high-frequency MXene micro-supercapacitors for kHz AC line-filtering. <i>Journal of Energy Chemistry</i> , 2021 , 69, 1-1	12	2
205	Recent advances in micro-supercapacitors for AC line-filtering performance: From fundamental models to emerging applications. <i>EScience</i> , 2021 ,		5
204	Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2021 , 2108017-0	3.8	69
203	BiMnO/MWCNTs as an electrocatalyst for rechargeable relatively closed system Li-O batteries. <i>Chemical Communications</i> , 2021 , 57, 11823-11826	5.8	1
202	In Situ Modulation of A-Site Vacancies in LaMnO Perovskite for Surface Lattice Oxygen Activation and Boosted Redox Reactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 26747-26754	16.4	13
201	Scalable Production of Freestanding Few-Layer Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithium-Sulfur Batteries. <i>ACS Nano</i> , 2021 ,	16.7	5
200	Operando surface science methodology reveals surface effect in charge storage electrodes. <i>National Science Review</i> , 2021 , 8, nwaa289	10.8	6
199	Electrochemical impedance spectroscopy study of lithium-ion capacitors: Modeling and capacity fading mechanism. <i>Journal of Power Sources</i> , 2021 , 488, 229454	8.9	17
198	In Situ and Operando Characterizations of 2D Materials in Electrochemical Energy Storage Devices. <i>Small Science</i> , 2021 , 1, 2000076		23

197	High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System. <i>Advanced Energy Materials</i> , 2021 , 11, 2003835	21.8	20
196	Aqueous MXene/PH1000 Hybrid Inks for Inkjet-Printing Micro-Supercapacitors with Unprecedented Volumetric Capacitance and Modular Self-Powered Microelectronics. <i>Advanced Energy Materials</i> , 2021 , 11, 2100746	21.8	18
195	In Situ and Operando Characterizations of 2D Materials in Electrochemical Energy Storage Devices. <i>Small Science</i> , 2021 , 1, 2170010		3
194	High-voltage aqueous planar symmetric sodium ion micro-batteries with superior performance at low-temperature of 0°C. <i>Nano Energy</i> , 2021 , 82, 105688	17.1	12
193	Interfacial Engineering of Bifunctional Niobium (V)-Based Heterostructure Nanosheet Toward High Efficiency Lean-Electrolyte Lithium-Sulfur Full Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2102314	15.6	24
192	Micro-Supercapacitors: High-Voltage Potassium Ion Micro-Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System (Adv. Energy Mater. 17/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170065	21.8	
191	Oxygen defect enriched (NH ₄) ₂ V ₁₀ O ₂₅ ·nH ₂ O nanosheets for superior aqueous zinc-ion batteries. <i>Nano Energy</i> , 2021 , 84, 105876	17.1	59
190	Manipulating Crystallographic Orientation of Zinc Deposition for Dendrite-free Zinc Ion Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101299	21.8	77
189	Micro-Supercapacitors: Aqueous MXene/PH1000 Hybrid Inks for Inkjet-Printing Micro-Supercapacitors with Unprecedented Volumetric Capacitance and Modular Self-Powered Microelectronics (Adv. Energy Mater. 23/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170088	21.8	0
188	Tetrabutylammonium-Intercalated 1T-MoS ₂ Nanosheets with Expanded Interlayer Spacing Vertically Coupled on 2D Delaminated MXene for High-Performance Lithium-Ion Capacitors. <i>Advanced Functional Materials</i> , 2021 , 31, 2104286	15.6	29
187	A perspective on graphene for supercapacitors: Current status and future challenges. <i>Journal of Energy Chemistry</i> , 2021 , 53, 354-357	12	17
186	Recent advances in carbon nanostructures prepared from carbon dioxide for high-performance supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 54, 352-367	12	44
185	Lignin derived hierarchical porous carbon with extremely suppressed polyselenide shuttling for high-capacity and long-cycle-life lithium-selenium batteries. <i>Journal of Energy Chemistry</i> , 2021 , 55, 476-483	12	11
184	Nitrogen-doped holey graphene nanoscrolls for high-energy and high-power supercapacitors. <i>Chinese Chemical Letters</i> , 2021 , 32, 914-917	8.1	5
183	A General Synthetic Strategy toward Highly Doped Pyridinic Nitrogen-Rich Carbons. <i>Advanced Functional Materials</i> , 2021 , 31, 2006076	15.6	12
182	Pyridinic nitrogen enriched porous carbon derived from bimetal organic frameworks for high capacity zinc ion hybrid capacitors with remarkable rate capability. <i>Journal of Energy Chemistry</i> , 2021 , 56, 404-411	12	24
181	Toward high-performance and flexible all-solid-state micro-supercapacitors: MOF bulk vs. MOF nanosheets. <i>Chemical Engineering Journal</i> , 2021 , 413, 127520	14.7	15
180	Photopolymerized Gel Electrolyte with Unprecedented Room-Temperature Ionic Conductivity for High-Energy-Density Solid-State Sodium Metal Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2002930	21.8	21

179	Two-dimensional Boron Nitride for Electronics and Energy Applications. <i>Energy and Environmental Materials</i> , 2021 ,	13	1
178	Recent Advances on Carbon-Based Materials for High Performance Lithium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2021 , 4, 407-428	5.6	8
177	An intrinsically flexible phase change film for wearable thermal managements. <i>Energy Storage Materials</i> , 2021 , 34, 508-514	19.4	51
176	Scalable and fast fabrication of graphene integrated micro-supercapacitors with remarkable volumetric capacitance and flexibility through continuous centrifugal coating. <i>Journal of Energy Chemistry</i> , 2021 , 52, 284-290	12	15
175	A high-performance rocking-chair lithium-ion battery-supercapacitor hybrid device boosted by doubly matched capacity and kinetics of the faradaic electrodes. <i>Energy and Environmental Science</i> , 2021 , 14, 2269-2277	35.4	18
174	Solid-state integrated micro-supercapacitor array construction with low-cost porous biochar. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 4772-4779	7.8	2
173	Engineering nanoreactors for metal-halogen batteries. <i>Energy and Environmental Science</i> , 2021 , 14, 540-575	35.4	26
172	Multitasking MXene Inks Enable High-Performance Printable Microelectrochemical Energy Storage Devices for All-Flexible Self-Powered Integrated Systems. <i>Advanced Materials</i> , 2021 , 33, e2005449	24	64
171	A three-dimensional polyoxometalate/graphene aerogel as a highly efficient and recyclable absorbent for oil/water separation. <i>New Carbon Materials</i> , 2021 , 36, 189-197	4.4	7
170	Aqueous high-voltage all 3D-printed micro-supercapacitors with ultrahigh areal capacitance and energy density. <i>Journal of Energy Chemistry</i> , 2021 ,	12	6
169	Nitrogen-enriched graphene framework from a large-scale magnesiothermic conversion of CO ₂ with synergistic kinetics for high-power lithium-ion capacitors. <i>NPG Asia Materials</i> , 2021 , 13,	10.3	5
168	Ink formulation, scalable applications and challenging perspectives of screen printing for emerging printed microelectronics. <i>Journal of Energy Chemistry</i> , 2021 ,	12	9
167	Recent Advances in Interface Engineering and Architecture Design of Air-Stable and Water-Resistant Lithium Metal Anodes. <i>Energy & Fuels</i> , 2021 , 35, 12902-12920	4.1	3
166	Ultrarapid synthesis Ni-Cu bifunctional electrocatalyst by self-etching electrodeposition for high-performance water splitting reaction. <i>Applied Surface Science</i> , 2021 , 561, 150030	6.7	4
165	Advanced design of cathodes and interlayers for high-performance lithium-selenium batteries. <i>SusMat</i> , 2021 , 1, 393-412		5
164	Room-temperature fast assembly of 3D macroscopically porous graphene frameworks for binder-free compact supercapacitors with high gravimetric and volumetric capacitances. <i>Journal of Energy Chemistry</i> , 2021 , 61, 23-28	12	12
163	Achieving stable Na metal cycling via polydopamine/multilayer graphene coating of a polypropylene separator. <i>Nature Communications</i> , 2021 , 12, 5786	17.4	9
162	Scalable fabrication of in-plane microscale self-powered integrated systems for fast-response and highly selective dual-channel gas detection. <i>Nano Energy</i> , 2021 , 88, 106253	17.1	4

161	Tailoring the defects of two-dimensional borocarbonitride nanomesh for high energy density micro-supercapacitor. <i>Energy Storage Materials</i> , 2021 , 42, 430-437	19.4	3
160	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. <i>Energy Storage Materials</i> , 2021 , 42, 845-870	19.4	9
159	General synthesis of hollow mesoporous conducting polymers by dual-colloid interface co-assembly for high-energy-density micro-supercapacitors. <i>Journal of Energy Chemistry</i> , 2021 , 62, 145-152	14.7	8
158	Strongly coupled tungsten oxide/carbide heterogeneous hybrid for ultrastable aqueous rocking-chair zinc-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 131893	14.7	11
157	Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. <i>Small Structures</i> , 2020 , 1, 2070003	8.7	
156	Lithium Sulfur Batteries: Molecular-Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithium Sulfur Batteries (Adv. Energy Mater. 20/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070092	21.8	5
155	3D Flexible, Conductive, and Recyclable TiCT MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. <i>ACS Nano</i> , 2020 , 14, 8678-8688	16.7	92
154	Layer-by-layer stacked amorphous V2O5/Graphene 2D heterostructures with strong-coupling effect for high-capacity aqueous zinc-ion batteries with ultra-long cycle life. <i>Energy Storage Materials</i> , 2020 , 31, 156-163	19.4	41
153	Recent Advancements and Perspective of High-Performance Printed Power Sources with Multiple Form Factors. <i>Electrochemical Energy Reviews</i> , 2020 , 3, 581-612	29.3	12
152	MXene for energy storage: present status and future perspectives. <i>JPhys Energy</i> , 2020 , 2, 032004	4.9	25
151	Zinc-Ion Batteries: 2D Amorphous V2O5/Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability (Adv. Energy Mater. 22/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070100	21.8	2
150	Sodium Ion Batteries: Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility (Adv. Energy Mater. 12/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070055	21.8	0
149	The Chemistry and Promising Applications of Graphene and Porous Graphene Materials. <i>Advanced Functional Materials</i> , 2020 , 30, 1909035	15.6	79
148	A Two-Dimensional Mesoporous Polypyrrole/Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie</i> , 2020 , 132, 12245-12251	13.6	8
147	A Two-Dimensional Mesoporous Polypyrrole-Graphene Oxide Heterostructure as a Dual-Functional Ion Redistributor for Dendrite-Free Lithium Metal Anodes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 12147-12153	16.4	69
146	2D Amorphous V2O5/Graphene Heterostructures for High-Safety Aqueous Zn-Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. <i>Advanced Energy Materials</i> , 2020 , 10, 2000081	21.8	128
145	Hierarchical Ordered Dual-Mesoporous Polypyrrole/Graphene Nanosheets as Bi-Functional Active Materials for High-Performance Planar Integrated System of Micro-Supercapacitor and Gas Sensor. <i>Advanced Functional Materials</i> , 2020 , 30, 1909756	15.6	55
144	Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. <i>Energy Storage Materials</i> , 2020 , 27, 396-404	19.4	22

143	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. <i>Energy and Environmental Science</i> , 2020 , 13, 821-829	35.4	47
142	Toward High Energy Density All Solid-State Sodium Batteries with Excellent Flexibility. <i>Advanced Energy Materials</i> , 2020 , 10, 1903698	21.8	67
141	High-Valence Nickel Single-Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. <i>Advanced Science</i> , 2020 , 7, 1903089	13.6	93
140	Bioinspired footed soft robot with unidirectional all-terrain mobility. <i>Materials Today</i> , 2020 , 35, 42-49	21.8	29
139	Functional integrated electromagnetic interference shielding in flexible micro-supercapacitors by cation-intercalation typed Ti3C2Tx MXene. <i>Nano Energy</i> , 2020 , 72, 104741	17.1	27
138	Targeted synthesis and reaction mechanism discussion of Mo2C based insertion-type electrodes for advanced pseudocapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 7819-7827	13	5
137	Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2000706	15.6	93
136	Interfacial interaction-induced temperature-dependent mechanical property of graphene-PDMS nanocomposite. <i>Journal of Materials Science</i> , 2020 , 55, 1553-1561	4.3	9
135	Graphene encapsulated iron nitrides confined in 3D carbon nanosheet frameworks for high-rate lithium ion batteries. <i>Carbon</i> , 2020 , 159, 213-220	10.4	22
134	Recent Advances and Challenges of Two-Dimensional Materials for High-Energy and High-Power Lithium-Ion Capacitors. <i>Batteries and Supercaps</i> , 2020 , 3, 10-29	5.6	26
133	Substrate-Free and Shapeless Planar Micro-Supercapacitors. <i>Advanced Functional Materials</i> , 2020 , 30, 1908758	15.6	32
132	Rapid synthesis of dielectric tantalum-based oxynitrides. <i>Materials and Design</i> , 2020 , 187, 108416	8.1	3
131	Porous Graphene Materials: The Chemistry and Promising Applications of Graphene and Porous Graphene Materials (Adv. Funct. Mater. 41/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070275	15.6	17
130	LithiumSulfur Batteries: Dual-Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries (Adv. Energy Mater. 39/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070162	21.8	1
129	Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. <i>Carbon</i> , 2020 , 168, 701-709	10.4	43
128	Micro-supercapacitors powered integrated system for flexible electronics. <i>Energy Storage Materials</i> , 2020 , 32, 402-417	19.4	21
127	Unraveling the Nature of Excellent Potassium Storage in Small-Molecule Se@Peapod-Like N-Doped Carbon Nanofibers. <i>Advanced Materials</i> , 2020 , 32, e2003879	24	47
126	Hybrid Nanostructures: Recent Advances and Promise of MXene-Based Nanostructures for High-Performance Metal Ion Batteries (Adv. Funct. Mater. 47/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070310	15.6	3

125	NH Sensor Based on 2D Wormlike Polypyrrole/Graphene Heterostructures for a Self-Powered Integrated System. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38674-38681	9.5	17
124	Three dimensional Ti3C2 MXene nanoribbon frameworks with uniform potassiophilic sites for the dendrite-free potassium metal anodes. <i>Nanoscale Advances</i> , 2020 , 2, 4212-4219	5.1	20
123	Zinc based micro-electrochemical energy storage devices: Present status and future perspective. <i>EcoMat</i> , 2020 , 2, e12042	9.4	7
122	Recent advances and future perspectives of two-dimensional materials for rechargeable Li-O2 batteries. <i>Energy Storage Materials</i> , 2020 , 31, 470-491	19.4	17
121	2D intrinsically defective RuO2/Graphene heterostructures as All-pH efficient oxygen evolving electrocatalysts with unprecedented activity. <i>Nano Energy</i> , 2020 , 78, 105185	17.1	21
120	Dual-Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2002271	21.8	67
119	Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. <i>Small Structures</i> , 2020 , 1, 2000053	8.7	31
118	Boosting Li-S battery performance by an efficient polysulfide double-blocking strategy. <i>FlatChem</i> , 2020 , 24, 100209	5.1	2
117	Scalable fabrication of printed Zn//MnO planar micro-batteries with high volumetric energy density and exceptional safety. <i>National Science Review</i> , 2020 , 7, 64-72	10.8	80
116	A general bimetal-ion adsorption strategy to prepare nickel single atom catalysts anchored on graphene for efficient oxygen evolution reaction. <i>Journal of Energy Chemistry</i> , 2020 , 43, 52-57	12	51
115	Molecular-Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithium Sulfur Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000651	21.8	61
114	Rational design of MoS2 nanosheets decorated on mesoporous hollow carbon spheres as a dual-functional accelerator in sulfur cathode for advanced pouch-type LiS batteries. <i>Journal of Energy Chemistry</i> , 2020 , 51, 262-271	12	32
113	One-Step Scalable Fabrication of Graphene-Integrated Micro-Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. <i>Advanced Functional Materials</i> , 2019 , 29, 1902860	15.6	64
112	The Promise and Challenge of Phosphorus-Based Composites as Anode Materials for Potassium-Ion Batteries. <i>Advanced Materials</i> , 2019 , 31, e1901414	24	105
111	A perspective on two-dimensional materials for planar micro-supercapacitors. <i>APL Materials</i> , 2019 , 7, 090902	5.7	18
110	Preparation and interface modification of Si3N4f/SiO2 composites. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2767-2771	9.1	2
109	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. <i>Energy and Environmental Science</i> , 2019 , 12, 1534-1541	35.4	129
108	Screen-printing fabrication of high volumetric energy density micro-supercapacitors based on high-resolution thixotropic-ternary hybrid interdigital micro-electrodes. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 626-635	7.8	24

107	Two-dimensional materials for advanced Li-S batteries. <i>Energy Storage Materials</i> , 2019 , 22, 284-310	19.4	69
106	The Road Towards Planar Microbatteries and Micro-Supercapacitors: From 2D to 3D Device Geometries. <i>Advanced Materials</i> , 2019 , 31, e1900583	24	92
105	Nitrogen-doped hierarchical porous carbon with ultrathin graphitic framework for superior lithium storage. <i>Applied Surface Science</i> , 2019 , 493, 177-184	6.7	5
104	General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10173-10178	16.4	53
103	General Interfacial Self-Assembly Engineering for Patterning Two-Dimensional Polymers with Cylindrical Mesopores on Graphene. <i>Angewandte Chemie</i> , 2019 , 131, 10279-10284	3.6	15
102	Ultrahigh Surface Area N-Doped Hierarchically Porous Carbon for Enhanced CO Capture and Electrochemical Energy Storage. <i>ChemSusChem</i> , 2019 , 12, 3541-3549	8.3	25
101	High-Energy-Density Hydrogen-Ion-Rocking-Chair Hybrid Supercapacitors Based on TiC T MXene and Carbon Nanotubes Mediated by Redox Active Molecule. <i>ACS Nano</i> , 2019 , 13, 6899-6905	16.7	82
100	Shape-tailorable high-energy asymmetric micro-supercapacitors based on plasma reduced and nitrogen-doped graphene oxide and MoO ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14328-14336	13.3	27
99	2D hierarchical yolk-shell heterostructures as advanced host-interlayer integrated electrode for enhanced Li-S batteries. <i>Journal of Energy Chemistry</i> , 2019 , 36, 64-73	12	29
98	Two-dimensional energy materials: Opportunities and perspectives. <i>Energy Storage Materials</i> , 2019 , 22, 15-17	19.4	8
97	High mass loading Ni-decorated Co ₉ S ₈ with enhanced electrochemical performance for flexible quasi-solid-state asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2019 , 423, 106-114	8.9	26
96	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 9478-9485	13	74
95	Graphene aerogel derived compact films for ultrafast and high-capacity aluminum ion batteries. <i>Energy Storage Materials</i> , 2019 , 23, 664-669	19.4	31
94	Free-standing integrated cathode derived from 3D graphene/carbon nanotube aerogels serving as binder-free sulfur host and interlayer for ultrahigh volumetric-energy-density lithium sulfur batteries. <i>Nano Energy</i> , 2019 , 60, 743-751	17.1	98
93	Sequential growth of hierarchical N-doped carbon-MoS ₂ nanocomposites with variable nanostructures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6197-6204	13	16
92	All-Solid-State Planar Sodium-Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. <i>Advanced Science</i> , 2019 , 6, 1902147	13.6	23
91	Switchable Adhesion of Micropillar Adhesive on Rough Surfaces. <i>Small</i> , 2019 , 15, e1904248	11	40
90	The Synergetic Effect of Ni and Fe Bi-metal Single Atom Catalysts on Graphene for Highly Efficient Oxygen Evolution Reaction. <i>Frontiers in Materials</i> , 2019 , 6,	4	14

89	Reversible Adhesion via Light-Regulated Conformations of Rubber Chains. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 46337-46343	9.5	11
88	Single-atom nickel confined nanotube superstructure as support for catalytic wet air oxidation of acetic acid. <i>Communications Chemistry</i> , 2019 , 2,	6.3	7
87	Conducting and Lithiophilic MXene/Graphene Framework for High-Capacity, Dendrite-Free Lithium-Metal Anodes. <i>ACS Nano</i> , 2019 , 13, 14308-14318	16.7	97
86	Potassium-Ion Batteries: The Promise and Challenge of Phosphorus-Based Composites as Anode Materials for Potassium-Ion Batteries (Adv. Mater. 50/2019). <i>Advanced Materials</i> , 2019 , 31, 1970354	24	1
85	Microscale Energy-Storage Devices: The Road Towards Planar Microbatteries and Micro-Supercapacitors: From 2D to 3D Device Geometries (Adv. Mater. 50/2019). <i>Advanced Materials</i> , 2019 , 31, 1970351	24	5
84	2D hybrid interlayer of electrochemically exfoliated graphene and Co(OH) ₂ nanosheet as a bi-functionalized polysulfide barrier for high-performance lithium-sulfur batteries. <i>JPhys Energy</i> , 2019 , 1, 015002	4.9	4
83	2D mesoporous MnO ₂ nanosheets for high-energy asymmetric micro-supercapacitors in water-in-salt gel electrolyte. <i>Energy Storage Materials</i> , 2019 , 18, 397-404	19.4	95
82	Additive-Free Nb ₂ O ₅ /TiO ₂ Hybrid Anode towards Low-Cost and Safe Lithium-Ion Batteries: A Green Electrode Material Produced in an Environmentally Friendly Process. <i>Batteries and Supercaps</i> , 2019 , 2, 160-167	5.6	4
81	Embedding Co ₃ O ₄ nanoparticles into graphene nanoscrolls as anode for lithium ion batteries with superior capacity and outstanding cycling stability. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 212-217	3.6	8
80	All-MXene-Based Integrated Electrode Constructed by TiC Nanoribbon Framework Host and Nanosheet Interlayer for High-Energy-Density Li-S Batteries. <i>ACS Nano</i> , 2018 , 12, 2381-2388	16.7	258
79	Stretchable tandem micro-supercapacitors with high voltage output and exceptional mechanical robustness. <i>Energy Storage Materials</i> , 2018 , 13, 233-240	19.4	63
78	2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. <i>Biosensors and Bioelectronics</i> , 2018 , 107, 69-75	11.8	153
77	All-solid-state high-energy planar hybrid micro-supercapacitors based on 2D VN nanosheets and Co(OH) ₂ nanoflowers. <i>Npj 2D Materials and Applications</i> , 2018 , 2,	8.8	47
76	Supercapacitors. <i>Chinese Chemical Letters</i> , 2018 , 29, 551-552	8.1	3
75	Mesoporous polypyrrole-based graphene nanosheets anchoring redox polyoxometalate for all-solid-state micro-supercapacitors with enhanced volumetric capacitance. <i>Science China Materials</i> , 2018 , 61, 233-242	7.1	37
74	Recent advances of graphene-based materials for high-performance and new-concept supercapacitors. <i>Journal of Energy Chemistry</i> , 2018 , 27, 25-42	12	95
73	All-solid-state planar integrated lithium ion micro-batteries with extraordinary flexibility and high-temperature performance. <i>Nano Energy</i> , 2018 , 51, 613-620	17.1	68
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67	Synthesis of mesoporous Fe ₃ Si aerogel as a photo-thermal material for highly efficient and stable corrosive-water evaporation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23263-23269	13	17
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58	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. <i>ACS Nano</i> , 2017 , 11, 7284-7292	16.7	251
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55	Graphene-Based Linear Tandem Micro-Supercapacitors with Metal-Free Current Collectors and High-Voltage Output. <i>Advanced Materials</i> , 2017 , 29, 1703034	24	106
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