Zhong-Shuai Wu

List of Publications by Year
in descending order

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		5558	2617
226	38,874	82	194
papers	citations	h-index	g-index

234	234	234	31902
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Graphene Anchored with Co₃O₄ Nanoparticles as Anode of Lithium Ion Batteries with Enhanced Reversible Capacity and Cyclic Performance. ACS Nano, 2010, 4, 3187-3194.	7.3	2,358
2	3D Nitrogen-Doped Graphene Aerogel-Supported Fe₃O₄ Nanoparticles as Efficient Electrocatalysts for the Oxygen Reduction Reaction. Journal of the American Chemical Society, 2012, 134, 9082-9085.	6.6	1,967
3	Doped Graphene Sheets As Anode Materials with Superhigh Rate and Large Capacity for Lithium Ion Batteries. ACS Nano, 2011, 5, 5463-5471.	7.3	1,904
4	Graphene-Wrapped Fe₃O₄ Anode Material with Improved Reversible Capacity and Cyclic Stability for Lithium Ion Batteries. Chemistry of Materials, 2010, 22, 5306-5313.	3.2	1,773
5	Graphene/metal oxide composite electrode materials for energy storage. Nano Energy, 2012, 1, 107-131.	8.2	1,669
6	Fabrication of Graphene/Polyaniline Composite Paper via In Situ Anodic Electropolymerization for High-Performance Flexible Electrode. ACS Nano, 2009, 3, 1745-1752.	7.3	1,464
7	High-Energy MnO₂ Nanowire/Graphene and Graphene Asymmetric Electrochemical Capacitors. ACS Nano, 2010, 4, 5835-5842.	7.3	1,448
8	Threeâ€Dimensional Nitrogen and Boron Coâ€doped Graphene for Highâ€Performance Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2012, 24, 5130-5135.	11.1	1,270
9	Exfoliation of Graphite into Graphene in Aqueous Solutions of Inorganic Salts. Journal of the American Chemical Society, 2014, 136, 6083-6091.	6.6	1,181
10	Anchoring Hydrous RuO₂ on Graphene Sheets for Highâ€Performance Electrochemical Capacitors. Advanced Functional Materials, 2010, 20, 3595-3602.	7.8	1,122
11	Mesoporous Metalâ€“Nitrogen-Doped Carbon Electrocatalysts for Highly Efficient Oxygen Reduction Reaction. Journal of the American Chemical Society, 2013, 135, 16002-16005.	6.6	1,119
12	Graphene-based in-plane micro-supercapacitors with high power and energy densities. Nature Communications, 2013, 4, 2487.	5.8	1,104
13	Three-Dimensional Graphene-Based Macro- and Mesoporous Frameworks for High-Performance Electrochemical Capacitive Energy Storage. Journal of the American Chemical Society, 2012, 134, 19532-19535.	6.6	1,024
14	Synthesis of Graphene Sheets with High Electrical Conductivity and Good Thermal Stability by Hydrogen Arc Discharge Exfoliation. ACS Nano, 2009, 3, 411-417.	7.3	807
15	Synthesis of high-quality graphene with a pre-determined number of layers. Carbon, 2009, 47, 493-499.	5.4	650
16	Field Emission of Singleâ€Layer Graphene Films Prepared by Electrophoretic Deposition. Advanced Materials, 2009, 21, 1756-1760.	11.1	624
17	Alkalized Ti3C2 MXene nanoribbons with expanded interlayer spacing for high-capacity sodium and potassium ion batteries. Nano Energy, 2017, 40, 1-8.	8.2	549
18	Ti₃C₂ MXene-Derived Sodium/Potassium Titanate Nanoribbons for High-Performance Sodium/Potassium Ion Batteries with Enhanced Capacities. ACS Nano, 2017, 11, 4792-4800.	7.3	544

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19	Highâ€Performance Electrocatalysts for Oxygen Reduction Derived from Cobalt Porphyrinâ€Based Conjugated Mesoporous Polymers. Advanced Materials, 2014, 26, 1450-1455.	11.1	425
20	Ultraflexible Inâ€Plane Microâ€Supercapacitors by Direct Printing of Solutionâ€Processable Electrochemically Exfoliated Graphene. Advanced Materials, 2016, 28, 2217-2222.	11.1	366
21	All-MXene-Based Integrated Electrode Constructed by Ti₃C₂ Nanoribbon Framework Host and Nanosheet Interlayer for High-Energy-Density Liâ€“S Batteries. ACS Nano, 2018, 12, 2381-2388.	7.3	340
22	One-Step Device Fabrication of Phosphorene and Graphene Interdigital Micro-Supercapacitors with High Energy Density. ACS Nano, 2017, 11, 7284-7292.	7.3	312
23	Manipulating Crystallographic Orientation of Zinc Deposition for Dendriteâ€free Zinc Ion Batteries. Advanced Energy Materials, 2021, 11, 2101299.	10.2	304
24	Recent advances in graphene-based planar micro-supercapacitors for on-chip energy storage. National Science Review, 2014, 1, 277-292.	4.6	298
25	Bottom-Up Fabrication of Sulfur-Doped Graphene Films Derived from Sulfur-Annulated Nanographene for Ultrahigh Volumetric Capacitance Micro-Supercapacitors. Journal of the American Chemical Society, 2017, 139, 4506-4512.	6.6	294
26	Alternating Stacked Grapheneâ€Conducting Polymer Compact Films with Ultrahigh Areal and Volumetric Capacitances for Highâ€Energy Microâ€Supercapacitors. Advanced Materials, 2015, 27, 4054-4061.	11.1	290
27	Layerâ€byâ€Layer Assembled Heteroatomâ€Doped Graphene Films with Ultrahigh Volumetric Capacitance and Rate Capability for Microâ€Supercapacitors. Advanced Materials, 2014, 26, 4552-4558.	11.1	289
28	Organic Radical-Assisted Electrochemical Exfoliation for the Scalable Production of High-Quality Graphene. Journal of the American Chemical Society, 2015, 137, 13927-13932.	6.6	288
29	Recent Progress on Two-Dimensional Materials. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2021, .	2.2	269
30	Graphene-based materials for high-voltage and high-energy asymmetric supercapacitors. Energy Storage Materials, 2017, 6, 70-97.	9.5	260
31	2D Amorphous V₂O₅/Graphene Heterostructures for Highâ€Safety Aqueous Znâ€Ion Batteries with Unprecedented Capacity and Ultrahigh Rate Capability. Advanced Energy Materials, 2020, 10, 2000081.	10.2	256
32	2D transition metal carbide MXene as a robust biosensing platform for enzyme immobilization and ultrasensitive detection of phenol. Biosensors and Bioelectronics, 2018, 107, 69-75.	5.3	251
33	Electrochemically Scalable Production of Fluorine-Modified Graphene for Flexible and High-Energy Ionogel-Based Microsupercapacitors. Journal of the American Chemical Society, 2018, 140, 8198-8205.	6.6	240
34	Ultrathin Printable Graphene Supercapacitors with AC Lineâ€Filtering Performance. Advanced Materials, 2015, 27, 3669-3675.	11.1	237
35	Screenâ€Printable Thin Film Supercapacitor Device Utilizing Graphene/Polyaniline Inks. Advanced Energy Materials, 2013, 3, 1035-1040.	10.2	228
36	Hydrogen adsorption behavior of graphene above critical temperature. International Journal of Hydrogen Energy, 2009, 34, 2329-2332.	3.8	203

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37	Graphene: a promising 2D material for electrochemical energy storage. Science Bulletin, 2017, 62, 724-740.	4.3	198
38	Patterning two-dimensional free-standing surfaces with mesoporous conducting polymers. Nature Communications, 2015, 6, 8817.	5.8	193
39	Conductive Microporous Covalent Triazineâ€Based Framework for Highâ€Performance Electrochemical Capacitive Energy Storage. Angewandte Chemie - International Edition, 2018, 57, 7992-7996.	7.2	193
40	Ultrahigh-voltage integrated micro-supercapacitors with designable shapes and superior flexibility. Energy and Environmental Science, 2019, 12, 1534-1541.	15.6	192
41	Recent Advances and Promise of MXeneâ€Based Nanostructures for Highâ€Performance Metal Ion Batteries. Advanced Functional Materials, 2020, 30, 2000706.	7.8	192
42	Highâ€Valence Nickel Singleâ€Atom Catalysts Coordinated to Oxygen Sites for Extraordinarily Activating Oxygen Evolution Reaction. Advanced Science, 2020, 7, 1903089.	5.6	182
43	Multitasking MXene Inks Enable Highâ€Performance Printable Microelectrochemical Energy Storage Devices for Allâ€Flexible Selfâ€Powered Integrated Systems. Advanced Materials, 2021, 33, e2005449.	11.1	182
44	The Chemistry and Promising Applications of Graphene and Porous Graphene Materials. Advanced Functional Materials, 2020, 30, 1909035.	7.8	181
45	Scalable Fabrication of Photochemically Reduced Graphene-Based Monolithic Micro-Supercapacitors with Superior Energy and Power Densities. ACS Nano, 2017, 11, 4283-4291.	7.3	176
46	Stackedâ€Layer Heterostructure Films of 2D Thiophene Nanosheets and Graphene for Highâ€Rate Allâ€Solidâ€State Pseudocapacitors with Enhanced Volumetric Capacitance. Advanced Materials, 2017, 29, 1602960.	11.1	173
47	Oxygen defect enriched (NH4)2V10O25Â·8H2O nanosheets for superior aqueous zincâ€ion batteries. Nano Energy, 2021, 84, 105876.	8.2	172
48	Photolithographic fabrication of high-performance all-solid-state graphene-based planar micro-supercapacitors with different interdigital fingers. Journal of Materials Chemistry A, 2014, 2, 8288.	5.2	169
49	3D Flexible, Conductive, and Recyclable Ti₃C₂T_x MXene-Melamine Foam for High-Areal-Capacity and Long-Lifetime Alkali-Metal Anode. ACS Nano, 2020, 14, 8678-8688.	7.3	164
50	Electrochemical interfacial capacitance in multilayer graphene sheets: Dependence on number of stacking layers. Electrochemistry Communications, 2009, 11, 1729-1732.	2.3	160
51	All-solid-state flexible planar lithium ion micro-capacitors. Energy and Environmental Science, 2018, 11, 2001-2009.	15.6	160
52	The Road Towards Planar Microbatteries and Microâ€Supercapacitors: From 2D to 3D Device Geometries. Advanced Materials, 2019, 31, e1900583.	11.1	160
53	The Promise and Challenge of Phosphorusâ€Based Composites as Anode Materials for Potassiumâ€ion Batteries. Advanced Materials, 2019, 31, e1901414.	11.1	155
54	Conducting and Lithiophilic MXene/Graphene Framework for High-Capacity, Dendrite-Free Lithiumâ€“Metal Anodes. ACS Nano, 2019, 13, 14308-14318.	7.3	155

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55	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. Nano Energy, 2019, 60, 743-751.	8.2	151
56	An intrinsically flexible phase change film for wearable thermal managements. Energy Storage Materials, 2021, 34, 508-514.	9.5	150
57	Scalable fabrication of printed Zn//MnO2 planar micro-batteries with high volumetric energy density and exceptional safety. National Science Review, 2020, 7, 64-72.	4.6	148
58	Efficient synthesis of graphene nanoribbons sonochemically cut from graphene sheets. Nano Research, 2010, 3, 16-22.	5.8	143
59	2D mesoporous MnO2 nanosheets for high-energy asymmetric micro-supercapacitors in water-in-salt gel electrolyte. Energy Storage Materials, 2019, 18, 397-404.	9.5	140
60	Dualâ€Functional Atomic Zinc Decorated Hollow Carbon Nanoreactors for Kinetically Accelerated Polysulfides Conversion and Dendrite Free Lithium Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2002271.	10.2	137
61	Grapheneâ€Based Linear Tandem Microâ€Supercapacitors with Metalâ€Free Current Collectors and Highâ€Voltage Output. Advanced Materials, 2017, 29, 1703034.	11.1	132
62	High-Energy-Density Hydrogen-Ion-Rocking-Chair Hybrid Supercapacitors Based on Ti₃C₂T_x MXene and Carbon Nanotubes Mediated by Redox Active Molecule. ACS Nano, 2019, 13, 6899-6905.	7.3	129
63	Recent advances of graphene-based materials for high-performance and new-concept supercapacitors. Journal of Energy Chemistry, 2018, 27, 25-42.	7.1	123
64	Arbitrary-Shaped Graphene-Based Planar Sandwich Supercapacitors on One Substrate with Enhanced Flexibility and Integration. ACS Nano, 2017, 11, 2171-2179.	7.3	121
65	Ionic liquid pre-intercalated MXene films for ionogel-based flexible micro-supercapacitors with high volumetric energy density. Journal of Materials Chemistry A, 2019, 7, 9478-9485.	5.2	120
66	Three-dimensional nitrogen doped hierarchically porous carbon aerogels with ultrahigh specific surface area for high-performance supercapacitors and flexible micro-supercapacitors. Carbon, 2020, 168, 701-709.	5.4	118
67	A Twoâ€Dimensional Mesoporous Polypyrroleâ€“Graphene Oxide Heterostructure as a Dualâ€Functional Ion Redistributor for Dendriteâ€Free Lithium Metal Anodes. Angewandte Chemie - International Edition, 2020, 59, 12147-12153.	7.2	115
68	Two-dimensional materials for advanced Li-S batteries. Energy Storage Materials, 2019, 22, 284-310.	9.5	114
69	Toward High Energy Density All Solidâ€State Sodium Batteries with Excellent Flexibility. Advanced Energy Materials, 2020, 10, 1903698.	10.2	111
70	Hierarchical Ordered Dualâ€Mesoporous Polypyrrole/Graphene Nanosheets as Biâ€Functional Active Materials for Highâ€Performance Planar Integrated System of Microâ€Supercapacitor and Gas Sensor. Advanced Functional Materials, 2020, 30, 1909756.	7.8	106
71	Tetrabutylammoniumâ€Intercalated 1Tâ€MoS₂ Nanosheets with Expanded Interlayer Spacing Vertically Coupled on 2D Delaminated MXene for Highâ€Performance Lithiumâ€Ion Capacitors. Advanced Functional Materials, 2021, 31, 2104286.	7.8	106
72	Oneâ€Step Scalable Fabrication of Grapheneâ€Integrated Microâ€Supercapacitors with Remarkable Flexibility and Exceptional Performance Uniformity. Advanced Functional Materials, 2019, 29, 1902860.	7.8	104

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73	Unraveling the Nature of Excellent Potassium Storage in Smallâ€Molecule Se@Peapodâ€Like Nâ€Doped Carbon Nanofibers. Advanced Materials, 2020, 32, e2003879.	11.1	104
74	Molecularâ€Level Design of Pyrrhotite Electrocatalyst Decorated Hierarchical Porous Carbon Spheres as Nanoreactors for Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2020, 10, 2000651.	10.2	101
75	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. Energy Storage Materials, 2020, 31, 156-163.	9.5	99
76	Recent advances in carbon nanostructures prepared from carbon dioxide for high-performance supercapacitors. Journal of Energy Chemistry, 2021, 54, 352-367.	7.1	97
77	Bulk growth of mono- to few-layer graphene on nickel particles by chemical vapor deposition from methane. Carbon, 2010, 48, 3543-3550.	5.4	96
78	High Packing Density Unidirectional Arrays of Vertically Aligned Graphene with Enhanced Areal Capacitance for High-Power Micro-Supercapacitors. ACS Nano, 2017, 11, 4009-4016.	7.3	96
79	Interfacial Engineering of Bifunctional Niobium (V)â€Based Heterostructure Nanosheet Toward High Efficiency Leanâ€Electrolyte Lithiumâ€“Sulfur Full Batteries. Advanced Functional Materials, 2021, 31, 2102314.	7.8	93
80	All-solid-state planar integrated lithium ion micro-batteries with extraordinary flexibility and high-temperature performance. Nano Energy, 2018, 51, 613-620.	8.2	88
81	Surface and Interference Coenhanced Raman Scattering of Graphene. ACS Nano, 2009, 3, 933-939.	7.3	87
82	Recent advances in the preparation, characterization, and applications of two-dimensional heterostructures for energy storage and conversion. Journal of Materials Chemistry A, 2018, 6, 21747-21784.	5.2	85
83	General Interfacial Selfâ€Assembly Engineering for Patterning Twoâ€Dimensional Polymers with Cylindrical Mesopores on Graphene. Angewandte Chemie - International Edition, 2019, 58, 10173-10178.	7.2	85
84	A general bimetal-ion adsorption strategy to prepare nickel single atom catalysts anchored on graphene for efficient oxygen evolution reaction. Journal of Energy Chemistry, 2020, 43, 52-57.	7.1	85
85	Aqueous MXene/PH1000 Hybrid Inks for Inkjetâ€Printing Microâ€Supercapacitors with Unprecedented Volumetric Capacitance and Modular Selfâ€Powered Microelectronics. Advanced Energy Materials, 2021, 11, 2100746.	10.2	85
86	In Situ Modulation of Aâ€Site Vacancies in LaMnO_{3.15} Perovskite for Surface Lattice Oxygen Activation and Boosted Redox Reactions. Angewandte Chemie - International Edition, 2021, 60, 26747-26754.	7.2	85
87	Switchable Adhesion of Micropillar Adhesive on Rough Surfaces. Small, 2019, 15, e1904248.	5.2	83
88	Binder-free activated graphene compact films for all-solid-state micro-supercapacitors with high areal and volumetric capacitances. Energy Storage Materials, 2015, 1, 119-126.	9.5	82
89	Stretchable tandem micro-supercapacitors with high voltage output and exceptional mechanical robustness. Energy Storage Materials, 2018, 13, 233-240.	9.5	82
90	Ionogel-based sodium ion micro-batteries with a 3D Na-ion diffusion mechanism enable ultrahigh rate capability. Energy and Environmental Science, 2020, 13, 821-829.	15.6	82

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91	2D holey cobalt sulfide nanosheets derived from metalâ€“organic frameworks for high-rate sodium ion batteries with superior cyclability. Journal of Materials Chemistry A, 2018, 6, 14324-14329.	5.2	81
92	Interconnected Phosphorus and Nitrogen Codoped Porous Exfoliated Carbon Nanosheets for High-Rate Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 17317-17325.	4.0	79
93	Synthesis of mesoporous hexagonal boron nitride fibers with high surface area for efficient removal of organic pollutants. Chemical Engineering Journal, 2014, 243, 494-499.	6.6	78
94	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. Physical Review B, 2010, 81, .	1.1	77
95	Bioinspired footed soft robot with unidirectional all-terrain mobility. Materials Today, 2020, 35, 42-49.	8.3	77
96	All-solid-state high-energy planar hybrid micro-supercapacitors based on 2D VN nanosheets and Co(OH)2 nanoflowers. Npj 2D Materials and Applications, 2018, 2, .	3.9	71
97	Ink formulation, scalable applications and challenging perspectives of screen printing for emerging printed microelectronics. Journal of Energy Chemistry, 2021, 63, 498-513.	7.1	71
98	A LiF Nanoparticleâ€Modified Graphene Electrode for Highâ€Power and Highâ€Energy Lithium Ion Batteries. Advanced Functional Materials, 2012, 22, 3290-3297.	7.8	70
99	Engineering nanoreactors for metalâ€“chalcogen batteries. Energy and Environmental Science, 2021, 14, 540-575.	15.6	70
100	MXene for energy storage: present status and future perspectives. JPhys Energy, 2020, 2, 032004.	2.3	69
101	Rational design of MoS2 nanosheets decorated on mesoporous hollow carbon spheres as a dual-functional accelerator in sulfur cathode for advanced pouch-type Liâ€“S batteries. Journal of Energy Chemistry, 2020, 51, 262-271.	7.1	69
102	Achieving stable Na metal cycling via polydopamine/multilayer graphene coating of a polypropylene separator. Nature Communications, 2021, 12, 5786.	5.8	69
103	Crystallographic Tailoring of Graphene by Nonmetal SiO_x Nanoparticles. Journal of the American Chemical Society, 2009, 131, 13934-13936.	6.6	68
104	A high-performance rocking-chair lithium-ion battery-supercapacitor hybrid device boosted by doubly matched capacity and kinetics of the faradaic electrodes. Energy and Environmental Science, 2021, 14, 2269-2277.	15.6	63
105	The doping of reduced graphene oxide with nitrogen and its effect on the quenching of the materialâ€™s photoluminescence. Carbon, 2012, 50, 5286-5291.	5.4	62
106	Functional integrated electromagnetic interference shielding in flexible micro-supercapacitors by cation-intercalation typed Ti3C2Tx MXene. Nano Energy, 2020, 72, 104741.	8.2	62
107	Pyridinic nitrogen enriched porous carbon derived from bimetal organic frameworks for high capacity zinc ion hybrid capacitors with remarkable rate capability. Journal of Energy Chemistry, 2021, 56, 404-411.	7.1	60
108	2D intrinsically defective RuO2/Graphene heterostructures as All-pH efficient oxygen evolving electrocatalysts with unprecedented activity. Nano Energy, 2020, 78, 105185.	8.2	58

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109	Recent status and future perspectives of 2D MXene for micro-supercapacitors and micro-batteries. Energy Storage Materials, 2022, 51, 500-526.	9.5	58
110	Substrateâ€Free and Shapeless Planar Microâ€Supercapacitors. Advanced Functional Materials, 2020, 30, 1908758.	7.8	57
111	Recent advances in micro-supercapacitors for AC line-filtering performance: From fundamental models to emerging applications. EScience, 2021, 1, 124-140.	25.0	57
112	All-solid-state high-energy planar asymmetric supercapacitors based on all-in-one monolithic film using boron nitride nanosheets as separator. Energy Storage Materials, 2018, 10, 24-31.	9.5	55
113	Highâ€Voltage Potassium Ion Microâ€Supercapacitors with Extraordinary Volumetric Energy Density for Wearable Pressure Sensor System. Advanced Energy Materials, 2021, 11, 2003835.	10.2	53
114	Graphene aerogel derived compact films for ultrafast and high-capacity aluminum ion batteries. Energy Storage Materials, 2019, 23, 664-669.	9.5	51
115	In Situ and Operando Characterizations of 2D Materials in Electrochemical Energy Storage Devices. Small Science, 2021, 1, 2000076.	5.8	50
116	2D Graphene/MnO Heterostructure with Strongly Stable Interface Enabling Highâ€Performance Flexible Solidâ€State Lithiumâ€Ion Capacitors. Advanced Functional Materials, 2022, 32, .	7.8	50
117	Graphene encapsulated iron nitrides confined in 3D carbon nanosheet frameworks for high-rate lithium ion batteries. Carbon, 2020, 159, 213-220.	5.4	49
118	Unraveling the Design Principles of Batteryâ€Supercapacitor Hybrid Devices: From Fundamental Mechanisms to Microstructure Engineering and Challenging Perspectives. Advanced Energy Materials, 2022, 12, .	10.2	49
119	High mass loading Ni-decorated Co9S8 with enhanced electrochemical performance for flexible quasi-solid-state asymmetric supercapacitors. Journal of Power Sources, 2019, 423, 106-114.	4.0	48
120	Recent Advances and Challenges of Twoâ€Dimensional Materials for Highâ€Energy and Highâ€Power Lithiumâ€Ion Capacitors. Batteries and Supercaps, 2020, 3, 10-29.	2.4	48
121	Porous Graphene Materials: The Chemistry and Promising Applications of Graphene and Porous Graphene Materials (Adv. Funct. Mater. 41/2020). Advanced Functional Materials, 2020, 30, 2070275.	7.8	48
122	Mesoporous polypyrrole-based graphene nanosheets anchoring redox polyoxometalate for all-solid-state micro-supercapacitors with enhanced volumetric capacitance. Science China Materials, 2018, 61, 233-242.	3.5	47
123	Micro-supercapacitors powered integrated system for flexible electronics. Energy Storage Materials, 2020, 32, 402-417.	9.5	47
124	Sodium Ion Microscale Electrochemical Energy Storage Device: Present Status and Future Perspective. Small Structures, 2020, 1, 2000053.	6.9	47
125	Electrochemical impedance spectroscopy study of lithium-ion capacitors: Modeling and capacity fading mechanism. Journal of Power Sources, 2021, 488, 229454.	4.0	47
126	Two-dimensional materials and their derivatives for high performance phase change materials: emerging trends and challenges. Energy Storage Materials, 2021, 42, 845-870.	9.5	47

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127	Photopolymerized Gel Electrolyte with Unprecedented Roomâ€Temperature Ionic Conductivity for Highâ€Energyâ€Density Solidâ€State Sodium Metal Batteries. Advanced Energy Materials, 2021, 11, 2002930.	10.2	45
128	Toward high-performance and flexible all-solid-state micro-supercapacitors: MOF bulk vs. MOF nanosheets. Chemical Engineering Journal, 2021, 413, 127520.	6.6	44
129	Ultrahigh Surface Area Nâ€Doped Hierarchically Porous Carbon for Enhanced CO₂ Capture and Electrochemical Energy Storage. ChemSusChem, 2019, 12, 3541-3549.	3.6	42
130	Design and construction of few-layer graphene cathode for ultrafast and high-capacity aluminum-ion batteries. Energy Storage Materials, 2020, 27, 396-404.	9.5	42
131	Screen-printing fabrication of high volumetric energy density micro-supercapacitors based on high-resolution thixotropic-ternary hybrid interdigital micro-electrodes. Materials Chemistry Frontiers, 2019, 3, 626-635.	3.2	41
132	Scalable Production of Freestanding Few-Layer Î²₁₂-Borophene Single Crystalline Sheets as Efficient Electrocatalysts for Lithiumâ€“Sulfur Batteries. ACS Nano, 2021, 15, 17327-17336.	7.3	40
133	2D hierarchical yolk-shell heterostructures as advanced host-interlayer integrated electrode for enhanced Li-S batteries. Journal of Energy Chemistry, 2019, 36, 64-73.	7.1	39
134	Three dimensional Ti₃C₂ MXene nanoribbon frameworks with uniform potassiophilic sites for the dendrite-free potassium metal anodes. Nanoscale Advances, 2020, 2, 4212-4219.	2.2	39
135	Kinetic regulation of MXene with water-in-LiCl electrolyte for high-voltage micro-supercapacitors. National Science Review, 2022, 9, .	4.6	39
136	NH₃ Sensor Based on 2D Wormlike Polypyrrole/Graphene Heterostructures for a Self-Powered Integrated System. ACS Applied Materials & Interfaces, 2020, 12, 38674-38681.	4.0	38
137	Strongly coupled tungsten oxide/carbide heterogeneous hybrid for ultrastable aqueous rockingâ€chair zinc-ion batteries. Chemical Engineering Journal, 2021, 426, 131893.	6.6	38
138	Redistributing Zn ion flux by bifunctional graphitic carbon nitride nanosheets for dendrite-free zinc metal anodes. Journal of Materials Chemistry A, 2021, 9, 27408-27414.	5.2	37
139	A General Synthetic Strategy toward Highly Doped Pyridinic Nitrogenâ€Rich Carbons. Advanced Functional Materials, 2021, 31, 2006076.	7.8	35
140	Allâ€Solidâ€State Planar Sodiumâ€Ion Microcapacitors with Multidirectional Fast Ion Diffusion Pathways. Advanced Science, 2019, 6, 1902147.	5.6	34
141	Shape-tailorable high-energy asymmetric micro-supercapacitors based on plasma reduced and nitrogen-doped graphene oxide and MoO₂ nanoparticles. Journal of Materials Chemistry A, 2019, 7, 14328-14336.	5.2	34
142	Zinc based microâ€electrochemical energy storage devices: Present status and future perspective. EcoMat, 2020, 2, e12042.	6.8	34
143	Recent advances and future perspectives of two-dimensional materials for rechargeable Li-O2 batteries. Energy Storage Materials, 2020, 31, 470-491.	9.5	34
144	A perspective on graphene for supercapacitors: Current status and future challenges. Journal of Energy Chemistry, 2021, 53, 354-357.	7.1	33

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145	High-voltage aqueous planar symmetric sodium ion micro-batteries with superior performance at low-temperature of â”40ÂºC. Nano Energy, 2021, 82, 105688.	8.2	32
146	Synthesis of novel organic-ligand-doped sodium bis(oxalate)-borate complexes with tailored thermal stability and enhanced ion conductivity for sodium ion batteries. Journal of Power Sources, 2014, 248, 77-82.	4.0	31
147	Lignin derived hierarchical porous carbon with extremely suppressed polyselenide shuttling for high-capacity and long-cycle-life lithiumâ€“selenium batteries. Journal of Energy Chemistry, 2021, 55, 476-483.	7.1	31
148	Recent Advances on Carbonâ€Based Materials for High Performance Lithiumâ€Ion Capacitors. Batteries and Supercaps, 2021, 4, 407-428.	2.4	31
149	Digital Microscale Electrochemical Energy Storage Devices for a Fully Connected and Intelligent World. ACS Energy Letters, 2022, 7, 267-281.	8.8	31
150	Room-temperature fast assembly of 3D macroscopically porous graphene frameworks for binder-free compact supercapacitors with high gravimetric and volumetric capacitances. Journal of Energy Chemistry, 2021, 61, 23-28.	7.1	30
151	Phosphorus doping and phosphates coating for nickel molybdate/nickel molybdate hydrate enabling efficient overall water splitting. Journal of Colloid and Interface Science, 2022, 606, 384-392.	5.0	30
152	Nitrogen-enriched graphene framework from a large-scale magnesiothermic conversion of CO2 with synergistic kinetics for high-power lithium-ion capacitors. NPG Asia Materials, 2021, 13, .	3.8	29
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