

Zhuangjun Fan

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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.

187 papers	26,386 citations	71 h-index	162 g-index
196 ext. papers	28,938 ext. citations	11 avg, IF	7.37 L-index

#	Paper	IF	Citations
187	Asymmetric Supercapacitors Based on Graphene/MnO ₂ and Activated Carbon Nanofiber Electrodes with High Power and Energy Density. <i>Advanced Functional Materials</i> , 2011 , 21, 2366-2375	15.6	1673
186	Advanced Asymmetric Supercapacitors Based on Ni(OH) ₂ /Graphene and Porous Graphene Electrodes with High Energy Density. <i>Advanced Functional Materials</i> , 2012 , 22, 2632-2641	15.6	1668
185	Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities. <i>Advanced Energy Materials</i> , 2014 , 4, 1300816	21.8	1364
184	Fast and reversible surface redox reaction of graphene/MnO ₂ composites as supercapacitor electrodes. <i>Carbon</i> , 2010 , 48, 3825-3833	10.4	1169
183	A three-dimensional carbon nanotube/graphene sandwich and its application as electrode in supercapacitors. <i>Advanced Materials</i> , 2010 , 22, 3723-8	24	1092
182	Preparation of a graphene nanosheet/polyaniline composite with high specific capacitance. <i>Carbon</i> , 2010 , 48, 487-493	10.4	911
181	Carbon materials for high volumetric performance supercapacitors: design, progress, challenges and opportunities. <i>Energy and Environmental Science</i> , 2016 , 9, 729-762	35.4	876
180	Nitrogen and sulfur co-doped porous carbon nanosheets derived from willow catkin for supercapacitors. <i>Nano Energy</i> , 2016 , 19, 165-175	17.1	874
179	Facile synthesis of graphene nanosheets via Fe reduction of exfoliated graphite oxide. <i>ACS Nano</i> , 2011 , 5, 191-8	16.7	742
178	Sulfate radicals induced from peroxymonosulfate by magnetic ferrosin MFe ₂ O ₄ (M = Co, Cu, Mn, and Zn) as heterogeneous catalysts in the water. <i>Applied Catalysis B: Environmental</i> , 2015 , 165, 572-578	21.8	570
177	Design of advanced porous graphene materials: from graphene nanomesh to 3D architectures. <i>Nanoscale</i> , 2014 , 6, 1922-45	7.7	548
176	Three-dimensional flower-like and hierarchical porous carbon materials as high-rate performance electrodes for supercapacitors. <i>Carbon</i> , 2014 , 67, 119-127	10.4	516
175	Preparation of graphene nanosheet/carbon nanotube/polyaniline composite as electrode material for supercapacitors. <i>Journal of Power Sources</i> , 2010 , 195, 3041-3045	8.9	498
174	An environmentally friendly and efficient route for the reduction of graphene oxide by aluminum powder. <i>Carbon</i> , 2010 , 48, 1686-1689	10.4	492
173	Electrochemical properties of graphene nanosheet/carbon black composites as electrodes for supercapacitors. <i>Carbon</i> , 2010 , 48, 1731-1737	10.4	478
172	Porous layer-stacking carbon derived from in-built template in biomass for high volumetric performance supercapacitors. <i>Nano Energy</i> , 2015 , 12, 141-151	17.1	436
171	Rapid microwave-assisted synthesis of graphene nanosheet/Co ₃ O ₄ composite for supercapacitors. <i>Electrochimica Acta</i> , 2010 , 55, 6973-6978	6.7	423

170	Nanocellulose: a promising nanomaterial for advanced electrochemical energy storage. <i>Chemical Society Reviews</i> , 2018 , 47, 2837-2872	58.5	401
169	Template-assisted low temperature synthesis of functionalized graphene for ultrahigh volumetric performance supercapacitors. <i>ACS Nano</i> , 2014 , 8, 4720-9	16.7	360
168	High-performance supercapacitor electrodes based on highly corrugated graphene sheets. <i>Carbon</i> , 2012 , 50, 2179-2188	10.4	353
167	Carbon nanotube/MnO ₂ composites synthesized by microwave-assisted method for supercapacitors with high power and energy densities. <i>Journal of Power Sources</i> , 2009 , 194, 1202-1207	8.9	337
166	Nitrogen-Doped Carbon Networks for High Energy Density Supercapacitors Derived from Polyaniline Coated Bacterial Cellulose. <i>Advanced Functional Materials</i> , 2014 , 24, 3953-3961	15.6	313
165	Gram-scale synthesis of nanomesh graphene with high surface area and its application in supercapacitor electrodes. <i>Chemical Communications</i> , 2011 , 47, 5976-8	5.8	308
164	Electromagnetic and microwave absorbing properties of multi-walled carbon nanotubes/polymer composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 132, 85-89	3.1	272
163	Nanographene-constructed carbon nanofibers grown on graphene sheets by chemical vapor deposition: high-performance anode materials for lithium ion batteries. <i>ACS Nano</i> , 2011 , 5, 2787-94	16.7	249
162	Fabrication and electrochemical performances of hierarchical porous Ni(OH) ₂ nanoflakes anchored on graphene sheets. <i>Journal of Materials Chemistry</i> , 2012 , 22, 11494		240
161	Template-Directed Synthesis of Pillared-Porous Carbon Nanosheet Architectures: High-Performance Electrode Materials for Supercapacitors. <i>Advanced Energy Materials</i> , 2012 , 2, 419-424	21.8	229
160	Facile synthesis of functionalized porous carbon with three-dimensional interconnected pore structure for high volumetric performance supercapacitors. <i>Carbon</i> , 2015 , 93, 412-420	10.4	227
159	Ultrafast high-capacity NiZn battery with NiAlCo-layered double hydroxide. <i>Energy and Environmental Science</i> , 2014 , 7, 2025	35.4	224
158	Dual Support System Ensuring Porous CoAl Hydroxide Nanosheets with Ultrahigh Rate Performance and High Energy Density for Supercapacitors. <i>Advanced Functional Materials</i> , 2015 , 25, 1648-1655	15.6	219
157	Easy synthesis of porous graphene nanosheets and their use in supercapacitors. <i>Carbon</i> , 2012 , 50, 1699-1703	10.3	215
156	From flour to honeycomb-like carbon foam: Carbon makes room for high energy density supercapacitors. <i>Nano Energy</i> , 2015 , 13, 527-536	17.1	206
155	Interconnected Frameworks with a Sandwiched Porous Carbon Layer/Graphene Hybrids for Supercapacitors with High Gravimetric and Volumetric Performances. <i>Advanced Energy Materials</i> , 2014 , 4, 1400500	21.8	206
154	Densely packed graphene nanomesh-carbon nanotube hybrid film for ultra-high volumetric performance supercapacitors. <i>Nano Energy</i> , 2015 , 11, 471-480	17.1	189
153	Preparation of graphene nanosheet/alumina composites by spark plasma sintering. <i>Materials Research Bulletin</i> , 2011 , 46, 315-318	5.1	186

152	Two-dimensional mesoporous carbon sheet-like framework material for high-rate supercapacitors. <i>Carbon</i> , 2013 , 60, 481-487	10.4	176
151	Graphene/EMnO ₂ composite as adsorbent for the removal of nickel ions from wastewater. <i>Chemical Engineering Journal</i> , 2011 , 175, 1-7	14.7	167
150	Bubble-Decorated Honeycomb-Like Graphene Film as Ultrahigh Sensitivity Pressure Sensors. <i>Advanced Functional Materials</i> , 2015 , 25, 6545-6551	15.6	163
149	Preparation of graphene nanosheet/polymer composites using in situ reduction-Extractive dispersion. <i>Carbon</i> , 2009 , 47, 2296-2299	10.4	161
148	Supercapacitors based on graphene-supported iron nanosheets as negative electrode materials. <i>ACS Nano</i> , 2013 , 7, 11325-32	16.7	160
147	Biomass-derived three-dimensional honeycomb-like hierarchical structured carbon for ultrahigh energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 13589-13602	13	159
146	Functional Pillared Graphene Frameworks for Ultrahigh Volumetric Performance Supercapacitors. <i>Advanced Energy Materials</i> , 2015 , 5, 1500771	21.8	157
145	Template synthesis of hollow carbon spheres anchored on carbon nanotubes for high rate performance supercapacitors. <i>Carbon</i> , 2013 , 52, 209-218	10.4	151
144	KOH self-templating synthesis of three-dimensional hierarchical porous carbon materials for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14844	13	141
143	Enabling high-volumetric-energy-density supercapacitors: designing open, low-tortuosity heteroatom-doped porous carbon-tube bundle electrodes. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23085-23093	13	134
142	MnO ₂ /graphene hybrid as an alternative cathodic catalyst to platinum in microbial fuel cells. <i>Journal of Power Sources</i> , 2012 , 216, 187-191	8.9	132
141	Biomass-derived carbon materials with structural diversities and their applications in energy storage. <i>Science China Materials</i> , 2018 , 61, 133-158	7.1	130
140	Construction of nitrogen-doped porous carbon buildings using interconnected ultra-small carbon nanosheets for ultra-high rate supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11388-11396	13	122
139	Mesoporous polyaniline film on ultra-thin graphene sheets for high performance supercapacitors. <i>Journal of Power Sources</i> , 2014 , 247, 197-203	8.9	118
138	Porous graphene networks as high performance anode materials for lithium ion batteries. <i>Carbon</i> , 2013 , 60, 558-561	10.4	117
137	Multilayer-Folded Graphene Ribbon Film with Ultrahigh Areal Capacitance and High Rate Performance for Compressible Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1800597	15.6	112
136	Photocatalyst Interface Engineering: Spatially Confined Growth of ZnFe ₂ O ₄ within Graphene Networks as Excellent Visible-Light-Driven Photocatalysts. <i>Advanced Functional Materials</i> , 2015 , 25, 7080-7087	15.6	107
135	Fabrication of manganese dioxide nanoplates anchoring on biomass-derived cross-linked carbon nanosheets for high-performance asymmetric supercapacitors. <i>Journal of Power Sources</i> , 2015 , 300, 309-317	8.9	106

134	Ultramicroporous Carbons Puzzled by Graphene Quantum Dots: Integrated High Gravimetric, Volumetric, and Areal Capacitances for Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1805898	15.6	102
133	A new structure for multi-walled carbon nanotubes reinforced alumina nanocomposite with high strength and toughness. <i>Materials Letters</i> , 2008 , 62, 641-644	3.3	101
132	Functionalized graphene nanosheets decorated on carbon nanotubes networks for high performance supercapacitors. <i>Journal of Power Sources</i> , 2018 , 398, 113-119	8.9	100
131	High Volumetric Energy Density Asymmetric Supercapacitors Based on Well-Balanced Graphene and Graphene-MnO Electrodes with Densely Stacked Architectures. <i>Small</i> , 2016 , 12, 5217-5227	11	100
130	Facile synthesis of carbon nanofibers-bridged porous carbon nanosheets for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016 , 307, 190-198	8.9	99
129	A rapid and efficient method to prepare exfoliated graphite by microwave irradiation. <i>Carbon</i> , 2009 , 47, 337-339	10.4	97
128	Approaching the downsizing limit of silicon for surface-controlled lithium storage. <i>Advanced Materials</i> , 2015 , 27, 1526-32	24	95
127	High-performance asymmetric supercapacitors with lithium intercalation reaction using metal oxide-based composites as electrode materials. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16678-16686	13	91
126	Three-dimensional hybrid materials of fish scale-like polyaniline nanosheet arrays on graphene oxide and carbon nanotube for high-performance ultracapacitors. <i>Carbon</i> , 2013 , 54, 241-248	10.4	90
125	Boosting the supercapacitor performance of activated carbon by constructing overall conductive networks using graphene quantum dots. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6021-6027	13	89
124	Electrostatic interaction in electrospun nanofibers: Double-layer carbon protection of CoFe ₂ O ₄ nanosheets enabling ultralong-life and ultrahigh-rate lithium ion storage. <i>Nano Energy</i> , 2018 , 48, 238-247	17.1	84
123	A high-performance carbon derived from polyaniline for supercapacitors. <i>Electrochemistry Communications</i> , 2010 , 12, 1279-1282	5.1	83
122	Preparation and electrochemical properties of lamellar MnO ₂ for supercapacitors. <i>Materials Research Bulletin</i> , 2010 , 45, 210-215	5.1	82
121	Spatial Charge Storage within Honeycomb-Carbon Frameworks for Ultrafast Supercapacitors with High Energy and Power Densities. <i>Advanced Energy Materials</i> , 2017 , 7, 1700668	21.8	80
120	Enhancing the Li storage capacity and initial coulombic efficiency for porous carbons by sulfur doping. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15950-8	9.5	74
119	Self-activation of nitrogen and sulfur dual-doping hierarchical porous carbons for asymmetric supercapacitors with high energy densities. <i>Carbon</i> , 2019 , 153, 225-233	10.4	73
118	Synthesis and adsorption properties of spongelike porous MnFe ₂ O ₄ . <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 363, 1-7	5.1	73
117	High capacity gas storage in corrugated porous graphene with a specific surface area-lossless tightly stacking manner. <i>Chemical Communications</i> , 2012 , 48, 6815-7	5.8	72

116	Chemical vapor deposition derived flexible graphene paper and its application as high performance anodes for lithium rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 408-414	13	70
115	Toughening and reinforcing alumina matrix composite with single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2006 , 89, 121910	3.4	70
114	Functionalized three-dimensional graphene networks for high performance supercapacitors. <i>Carbon</i> , 2015 , 92, 26-30	10.4	69
113	Brick-and-mortar sandwiched porous carbon building constructed by metal-organic framework and graphene: Ultrafast charge/discharge rate up to 2 V s ⁻¹ for supercapacitors. <i>Nano Energy</i> , 2016 , 30, 84-92	17.1	69
112	Tuning sulfur doping in graphene for highly sensitive dopamine biosensors. <i>Carbon</i> , 2015 , 86, 197-206	10.4	68
111	Magnetic and high rate adsorption properties of porous Mn(1-x)Zn(x)Fe ₂ O ₄ (0 ≤ x ≤ 0.8) adsorbents. <i>Journal of Colloid and Interface Science</i> , 2011 , 353, 524-9	9.3	66
110	Edge-Nitrogen-Rich Carbon Dots Pillared Graphene Blocks with Ultrahigh Volumetric/Gravimetric Capacities and Ultralong Life for Sodium-Ion Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1802042	21.8	66
109	Oxygen Clusters Distributed in Graphene with Paddy Land Structure: Ultrahigh Capacitance and Rate Performance for Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1705258	15.6	65
108	In-plane mesoporous graphene oxide nanosheet assembled membranes for molecular separation. <i>RSC Advances</i> , 2014 , 4, 21425	3.7	61
107	Al and Co co-doped Ni(OH) ₂ /graphene hybrid materials with high electrochemical performances for supercapacitors. <i>Electrochimica Acta</i> , 2014 , 137, 352-358	6.7	60
106	Reduced graphene oxide/carbon nanotube hybrid fibers with narrowly distributed mesopores for flexible supercapacitors with high volumetric capacitances and satisfactory durability. <i>Carbon</i> , 2019 , 152, 134-143	10.4	59
105	In-situ hydrothermal crystallization Mg(OH) ₂ films on magnesium alloy AZ91 and their corrosion resistance properties. <i>Materials Chemistry and Physics</i> , 2013 , 143, 322-329	4.4	59
104	High density Co ₃ O ₄ nanoparticles confined in a porous graphene nanomesh network driven by an electrochemical process: ultra-high capacity and rate performance for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14023	13	58
103	Space-confinement of MnO nanosheets in densely stacked graphene: Ultra-high volumetric capacity and rate performance for lithium-ion batteries. <i>Energy Storage Materials</i> , 2018 , 12, 94-102	19.4	58
102	Synthesis of 3D porous ferromagnetic NiFe ₂ O ₄ and using as novel adsorbent to treat wastewater. <i>Journal of Colloid and Interface Science</i> , 2011 , 362, 477-85	9.3	57
101	Vertically Oriented Graphene Nanoribbon Fibers for High-Volumetric Energy Density All-Solid-State Asymmetric Supercapacitors. <i>Small</i> , 2017 , 13, 1700371	11	56
100	Nitrogen-doped sandwich-like porous carbon nanosheets for high volumetric performance supercapacitors. <i>Electrochimica Acta</i> , 2014 , 146, 548-555	6.7	55
99	One-step synthesis of a graphene-carbon nanotube hybrid decorated by magnetic nanoparticles. <i>Carbon</i> , 2012 , 50, 2764-2771	10.4	55

98	The synergy of a three filler combination in the conductivity of epoxy composites. <i>Materials Letters</i> , 2010 , 64, 2376-2379	3.3	54
97	Ultrasmall-sized SnS nanosheets vertically aligned on carbon microtubes for sodium-ion capacitors with high energy density. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 4047-4054	13	50
96	Synthesis of magnetic ZnO/ZnFe ₂ O ₄ by a microwave combustion method, and its high rate of adsorption of methylene blue. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 318-322	9.3	50
95	Ferromagnetism in nanomesh graphene. <i>Carbon</i> , 2013 , 51, 390-396	10.4	50
94	Amorphous Red Phosphorus Embedded in Sandwiched Porous Carbon Enabling Superior Sodium Storage Performances. <i>Small</i> , 2018 , 14, e1703472	11	46
93	Fe(CN) ₆ ³⁻ /ion-modified MnO ₂ /graphene nanoribbons enabling high energy density asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 7649-7658	13	46
92	One-step synthesis of biomass-derived porous carbon foam for high performance supercapacitors. <i>Materials Letters</i> , 2013 , 101, 29-32	3.3	46
91	Ultra-small and highly crystallized ZnFe ₂ O ₄ nanoparticles within double graphene networks for super-long life lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11188-11196	13	45
90	Synthesis of high surface area, mesoporous MgO nanosheets with excellent adsorption capability for Ni(II) via a distillation treating. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 259-267	9.3	45
89	Improvement of g-C ₃ N ₄ photocatalytic properties using the Hummers method. <i>Journal of Colloid and Interface Science</i> , 2016 , 479, 1-6	9.3	45
88	Facile and rapid synthesis of highly crumpled graphene sheets as high-performance electrodes for supercapacitors. <i>RSC Advances</i> , 2013 , 3, 2566	3.7	45
87	Fabrication and characterization of multi-walled carbon nanotubes-based ink. <i>Journal of Materials Science</i> , 2005 , 40, 5075-5077	4.3	45
86	High-performance aqueous asymmetric supercapacitor based on spinel LiMn ₂ O ₄ and nitrogen-doped graphene/porous carbon composite. <i>Electrochimica Acta</i> , 2015 , 180, 287-294	6.7	43
85	Preparation of a carbon nanotube film by ink-jet printing. <i>Carbon</i> , 2007 , 45, 2712-2716	10.4	42
84	Preparation and electrochemical characteristics of manganese dioxide/graphite nanoplatelet composites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008 , 151, 174-178	3.1	42
83	Wrinkled Ultrathin Graphitic C ₃ N ₄ Nanosheets for Photocatalytic Degradation of Organic Wastewater. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6733-6741	5.6	42
82	Oil sorption and recovery by using vertically aligned carbon nanotubes. <i>Carbon</i> , 2010 , 48, 4197-4200	10.4	41
81	Graphene Quantum Dot Reinforced Electrospun Carbon Nanofiber Fabrics with High Surface Area for Ultrahigh Rate Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 11669-11678	9.5	40

80	MgO-catalyzed growth of N-doped wrinkled carbon nanotubes. <i>Carbon</i> , 2013 , 56, 38-44	10.4	40
79	Effect of carbon black on electrical property of graphite nanoplatelets/epoxy resin composites. <i>Polymer Engineering and Science</i> , 2009 , 49, 2041-2045	2.3	40
78	Solar-powered nanostructured biopolymer hygroscopic aerogels for atmospheric water harvesting. <i>Nano Energy</i> , 2021 , 80, 105569	17.1	39
77	Nitrogen-doped carbon-coated MnO nanoparticles anchored on interconnected graphene ribbons for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2018 , 397, 325-333	8.9	34
76	Wood-Derived Carbon with Selectively Introduced C=O Groups toward Stable and High Capacity Anodes for Sodium Storage. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 27499-27507	9.5	33
75	Interconnected porous and nitrogen-doped carbon network for supercapacitors with high rate capability and energy density. <i>Electrochimica Acta</i> , 2013 , 114, 165-172	6.7	33
74	Densely stacked bubble-pillared graphene blocks for high volumetric performance supercapacitors. <i>Energy Storage Materials</i> , 2015 , 1, 42-50	19.4	33
73	Catalytic ozonation of di-n-butyl phthalate degradation using manganese ferrite/reduced graphene oxide nanofiber as catalyst in the water. <i>Journal of Colloid and Interface Science</i> , 2018 , 526, 347-355	9.3	32
72	Ultra-high toughness all graphene fibers derived from synergetic effect of interconnected graphene ribbons and graphene sheets. <i>Carbon</i> , 2017 , 120, 17-22	10.4	31
71	Polyaniline nanofibers confined into graphene oxide architecture for high-performance supercapacitors. <i>Electrochimica Acta</i> , 2018 , 291, 234-241	6.7	31
70	Ultra-small NiO nanoparticles anchored on nitrogen-doped carbon flowers through strong chemical bonding for high-performance lithium-ion batteries. <i>Journal of Power Sources</i> , 2019 , 441, 227182	8.9	30
69	Characteristics and electrochemical performances of supercapacitors using double-walled carbon nanotube/EMnO ₂ hybrid material electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 659, 191-195	4.1	30
68	The effect of carbon nanotubes microstructures on reinforcing properties of SWNTs/alumina composite. <i>Materials Research Bulletin</i> , 2008 , 43, 2806-2809	5.1	30
67	Approaching the Theoretical Sodium Storage Capacity and Ultrahigh Rate of Layer-Expanded MoS ₂ by Interfacial Engineering on N-Doped Graphene. <i>Advanced Energy Materials</i> , 2021 , 11, 2002600	21.8	30
66	Nickel hexacyanoferrate on graphene sheets for high-performance asymmetric supercapacitors in neutral aqueous electrolyte. <i>Electrochimica Acta</i> , 2019 , 303, 40-48	6.7	27
65	Multifunctional Bionanocomposite Foams with a Chitosan Matrix Reinforced by Nanofibrillated Cellulose. <i>ChemNanoMat</i> , 2017 , 3, 98-108	3.5	27
64	Compositing strategies to enhance the performance of chemiresistive CO ₂ gas sensors. <i>Materials Science in Semiconductor Processing</i> , 2020 , 107, 104820	4.3	27
63	Application of Carbon-/Graphene Quantum Dots for Supercapacitors. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2020 , 36, 1903052-0	3.8	26

62	Covalent grafting of p-phenylenediamine molecules onto a Bubble-like carbon surface for high performance asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 1767-1778	13	26
61	Large-surface-area activated carbon with high density by electrostatic densification for supercapacitor electrodes. <i>Carbon</i> , 2021 , 175, 281-288	10.4	25
60	Densely pillared holey-graphene block with high-level nitrogen doping enabling ultra-high volumetric capacity for lithium ion storage. <i>Carbon</i> , 2019 , 142, 327-336	10.4	25
59	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
58	Temperature dependence of the conductivity behavior of graphite nanoplatelet-filled epoxy resin composites. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 1515-1519	2.9	24
57	Lightweight, Flexible, Thermally-Stable, and Thermally-Insulating Aerogels Derived from Cotton Nanofibrillated Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9202-9210	8.3	23
56	Robust Nanofibrillated Cellulose Hydro/Aerogels from Benign Solution/Solvent Exchange Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6624-6634	8.3	22
55	Preparation of exfoliated graphite containing manganese oxides with high electrochemical capacitance by microwave irradiation. <i>Carbon</i> , 2009 , 47, 3371-3374	10.4	22
54	Preparation and characteristics of nanostructured MnO ₂ /MWCNTs using microwave irradiation method. <i>Materials Letters</i> , 2008 , 62, 3345-3348	3.3	22
53	Fabrication of mesoporous magnesium oxide nanosheets using magnesium powder and their excellent adsorption of Ni (II). <i>Journal of Colloid and Interface Science</i> , 2018 , 510, 69-76	9.3	21
52	In-situ growth of magnesium peroxide on the edge of magnesium oxide nanosheets: Ultrahigh photocatalytic efficiency based on synergistic catalysis. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 257-264	9.3	21
51	Recent Developments of Transition Metal Compounds-Carbon Hybrid Electrodes for High Energy/Power Supercapacitors. <i>Nano-Micro Letters</i> , 2021 , 13, 129	19.5	21
50	Supercapacitors: Recent Advances in Design and Fabrication of Electrochemical Supercapacitors with High Energy Densities (Adv. Energy Mater. 4/2014). <i>Advanced Energy Materials</i> , 2014 , 4,	21.8	20
49	Fast charge rate supercapacitors based on nitrogen-doped aligned carbon nanosheet networks. <i>Electrochimica Acta</i> , 2017 , 251, 91-98	6.7	20
48	Compressible aligned carbon nanotube/MnO ₂ as high-rate electrode materials for supercapacitors. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 684, 32-37	4.1	20
47	Pt enhanced the photo-Fenton activity of ZnFeO/FeO heterostructure synthesized via one-step hydrothermal method. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 793-800	9.3	19
46	Mesoporous single-crystalline MnOx nanofibers@graphene for ultra-high rate and long-life lithium-ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24756-24766	13	19
45	Nickel sulfide/graphene/carbon nanotube composites as electrode material for the supercapacitor application in the sea flashing signal system. <i>Journal of Marine Science and Application</i> , 2014 , 13, 462-466 ^{1.2}	1.2	17

44	One-step synthesis of biomass derived O, N-codoped hierarchical porous carbon with high surface area for supercapacitors. <i>Chinese Chemical Letters</i> , 2020 , 31, 2235-2238	8.1	17
43	A Highly Sensitive and Selective Hydrogen Peroxide Biosensor Based on Gold Nanoparticles and Three-Dimensional Porous Carbonized Chicken Eggshell Membrane. <i>PLoS ONE</i> , 2015 , 10, e0130156	3.7	16
42	Effect of the solvents on the photocatalytic properties of ZnFe ₂ O ₄ fabricated by solvothermal method. <i>Materials Chemistry and Physics</i> , 2019 , 223, 758-761	4.4	16
41	Microspheres composed of multilayer graphene as anode material for lithium-ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 653, 45-49	4.1	15
40	Oxidation behavior of fine-grained SiC/B ₄ C/C composites up to 1400 °C. <i>Carbon</i> , 2003 , 41, 429-436	10.4	15
39	Chloro-benquinone Modified on Graphene Oxide as Metal-free Catalyst: Strong Promotion of Hydroxyl Radical and Generation of Ultra-Small Graphene Oxide. <i>Scientific Reports</i> , 2017 , 7, 42643	4.9	14
38	Tin Nanodots Derived From Sn /Graphene Quantum Dot Complex as Pillars into Graphene Blocks for Ultrafast and Ultrastable Sodium-Ion Storage. <i>Small</i> , 2020 , 16, e2003557	11	13
37	Toward the Design of High-performance Supercapacitors by Prussian Blue, its Analogues and their Derivatives. <i>Energy and Environmental Materials</i> , 2020 , 3, 323-345	13	12
36	Sandwiching Sulfur into the Dents Between N, O Co-Doped Graphene Layered Blocks with Strong Physicochemical Confinements for Stable and High-Rate Li-S Batteries. <i>Nano-Micro Letters</i> , 2020 , 12, 146	19.5	12
35	High-efficiency utilization of carbon materials for supercapacitors. <i>Nano Select</i> , 2020 , 1, 244-262	3.1	11
34	The preparation of fine-grain doped graphite and its properties. <i>Journal of Nuclear Materials</i> , 2002 , 305, 77-82	3.3	10
33	Molecular Diffusion-Driven Motion in 2D Graphene Film. <i>Advanced Functional Materials</i> , 2018 , 28, 1707053	35.6	9
32	Overview of Supercapacitors. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2020 , 36, 1907017-0	3.8	9
31	Nitrogen-doped graphene ribbons/MoS ₂ with ultrafast electron and ion transport for high-rate Li-ion batteries. <i>Chemical Engineering Journal</i> , 2021 , 408, 127269	14.7	9
30	Fe(CN) ₆ ³⁻ ions confined into porous pillared-carbon nanosheets for high energy density supercapacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23885-23893	13	9
29	In Situ Nanoreactors: Controllable Photoluminescent Carbon-Rich Polymer Nanodots Derived from Fatty Acid under Photoirradiation. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800152	4.8	9
28	A Mott-Schottky Heterogeneous Layer for Li-S Batteries: Enabling Both High Stability and Commercial-Sulfur Utilization. <i>Advanced Energy Materials</i> , 2022 , 12, 2103657	21.8	9
27	Dispersibility and stability improvement of graphite nanoplatelets in organic solvent by assistance of dispersant and resin. <i>Materials Research Bulletin</i> , 2009 , 44, 977-983	5.1	8

26	Fabrication of MgO nanosheets for removal of Ni (II) via hydrothermal and calcination method without surfactant. <i>Materials Chemistry and Physics</i> , 2016 , 183, 499-505	4.4	8
25	Advanced Li-Ion Batteries with High Rate, Stability, and Mass Loading Based on Graphene Ribbon Hybrid Networks. <i>Chemistry - A European Journal</i> , 2019 , 25, 5022-5027	4.8	7
24	Preparation of zirconium oxy ion-imprinted particle for the selective separation of trace zirconium ion from water. <i>Journal of Colloid and Interface Science</i> , 2014 , 431, 209-15	9.3	7
23	One step synthesis of nanoparticles of cobalt in a graphitic shell anchored on graphene sheets. <i>Carbon</i> , 2012 , 50, 2356-2358	10.4	7
22	Effect of chemical modification of graphite nanoplatelets on electrochemical performance of MnO ₂ electrodes. <i>Journal of Materials Science: Materials in Electronics</i> , 2010 , 21, 619-624	2.1	7
21	New route for preparation of SiC-B ₄ C/C composite with excellent oxidation resistance up to 1400°C. <i>Journal of Materials Science Letters</i> , 2003 , 22, 213-215		7
20	A Nanostructured Moisture Absorbing Gel for Fast and Large-Scale Passive Dehumidification.. <i>Advanced Materials</i> , 2022 , e2200865	24	7
19	Super resilience of a compacted mixture of natural graphite and agglomerated carbon nanotubes under cyclic compression. <i>Carbon</i> , 2010 , 48, 309-312	10.4	6
18	Ni, Co Hydroxide Modified by Partial Substitution of OH [with Cl]For Boosting Ultra-Fast Redox Kinetics up to 500[mV] s [in Supercapacitors. <i>Advanced Functional Materials</i> , 2109225	15.6	6
17	Preparation of fine-grain carbon/ceramic materials by a ball milling dispersion method. <i>Carbon</i> , 2003 , 41, 1316-1319	10.4	5
16	Ultrafast pore-tailoring of dense microporous carbon for high volumetric performance supercapacitors in organic electrolyte. <i>Carbon</i> , 2022 , 191, 19-27	10.4	5
15	Advanced carbon materials with different spatial dimensions for supercapacitors. <i>Nano Materials Science</i> , 2021 , 3, 241-267	10.2	5
14	Strong oxidation induced quinone-rich dopamine polymerization onto porous carbons as ultrahigh-capacity organic cathode for sodium-ion batteries. <i>Energy Storage Materials</i> , 2021 , 43, 120-129	19.4	5
13	Photo-triggered conversion of hydrophilic fluorescent biomimetic nanostructures for cell imaging. <i>Chemical Communications</i> , 2019 , 55, 596-599	5.8	4
12	Improved visible-light photocatalytic properties of ZnFe ₂ O ₄ synthesized via sol-gel method combined with a microwave treatment. <i>Chemical Research in Chinese Universities</i> , 2015 , 31, 439-442	2.2	3
11	Wood-Derived Nanofibrillated Cellulose Hydrogel Filters for Fast and Efficient Separation of Nanoparticles. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1900063	5.9	3
10	Low-energy disinfection under natural light by magnetic Ag _x Mn _{1-x} Fe ₂ O ₄ in the water: Efficiency and mechanism. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019 , 97, 336-345	5.3	2
9	Synthesis of NiFe ₂ O ₄ nanowires with NiO nanosheet as precursor via a topochemical solid state method. <i>Chemical Research in Chinese Universities</i> , 2015 , 31, 885-889	2.2	2

8	Movement-induced voltage properties of stable graphite nanoplatelet suspensions. <i>Materials Letters</i> , 2009 , 63, 1608-1610	3.3	2
7	Enhanced pseudo-capacitance and rate performance of amorphous MnO ₂ for supercapacitor by high Na doping and structural water content. <i>Journal of Power Sources</i> , 2022 , 523, 231032	8.9	2
6	Weldable and flexible graphene ribbon@Ni fibers with ultrahigh length capacitance for all-solid-state supercapacitors. <i>Chemical Engineering Journal</i> , 2021 , 426, 131361	14.7	2
5	Polarity-induced precipitation of S/Li ₂ S confined into N and S co-doped porous graphene layered matrix for lithium sulfur batteries. <i>Carbon</i> , 2021 , 184, 544-553	10.4	1
4	Template-directed synthesis of pomegranate-shaped zinc oxide@zeolitic imidazolate framework for visible light photocatalytic degradation of tetracycline.. <i>Chemosphere</i> , 2022 , 294, 133782	8.4	0
3	Energy Storage: Dual Support System Ensuring Porous Co/Al Hydroxide Nanosheets with Ultrahigh Rate Performance and High Energy Density for Supercapacitors (Adv. Funct. Mater. 11/2015). <i>Advanced Functional Materials</i> , 2015 , 25, 1763-1763	15.6	
2	Reply to comment on Methods of calculating the volumetric performance of a supercapacitor. <i>Energy Storage Materials</i> , 2016 , 4, 156-157	19.4	
1	A Nanostructured Moisture-Absorbing Gel for Fast and Large-Scale Passive Dehumidification (Adv. Mater. 17/2022). <i>Advanced Materials</i> , 2022 , 34, 2270126	24	