Wenbin Zhong

List of Publications by Year
in descending order

39 papers	1,818 citations	257450 24 h-index	302126 39 g-index
39 all docs	39 docs citations	39 times ranked	2258 citing authors

#	Article	IF	Citations
1	Preparation of morphology-controllable polyaniline and polyaniline/graphene hydrogels for high performance binder-free supercapacitor electrodes. Journal of Power Sources, 2016, 319, 73-81.	7.8	177
2	Hydrothermal direct synthesis of polyaniline, graphene/polyaniline and N-doped graphene/polyaniline hydrogels for high performance flexible supercapacitors. Journal of Materials Chemistry A, 2018, 6, 9245-9256.	10.3	156
3	High-Performance Biomass-Based Flexible Solid-State Supercapacitor Constructed of Pressure-Sensitive Lignin-Based and Cellulose Hydrogels. ACS Applied Materials & Interfaces, 2018, 10, 22190-22200.	8.0	141
4	A new strategy for anchoring a functionalized graphene hydrogel in a carbon cloth network to support a lignosulfonate/polyaniline hydrogel as an integrated electrode for flexible high areal-capacitance supercapacitors. Journal of Materials Chemistry A, 2019, 7, 5819-5830.	10.3	130
5	Heteroatom-Doped Sheet-Like and Hierarchical Porous Carbon Based on Natural Biomass Small Molecule Peach Gum for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 3389-3403.	6.7	126
6	High performance nitrogen-doped porous graphene/carbon frameworks for supercapacitors. Journal of Materials Chemistry A, 2014, 2, 8859.	10.3	95
7	Mechanically robust double-crosslinked network functionalized graphene/polyaniline stiff hydrogels for superior performance supercapacitors. Journal of Materials Chemistry A, 2018, 6, 8568-8578.	10.3	74
8	Three-dimensional nitrogen-doped hierarchical porous carbon derived from cross-linked lignin derivatives for high performance supercapacitors. Electrochimica Acta, 2018, 282, 642-652.	5.2	72
9	Nitrogen-doped interpenetrating porous carbon/graphene networks for supercapacitor applications. Chemical Engineering Journal, 2021, 409, 127891.	12.7	62
10	Nitrogen-enriched compact biochar-based electrode materials for supercapacitors with ultrahigh volumetric performance. Journal of Power Sources, 2019, 439, 227067.	7.8	47
11	Facile synthesis of high nitrogen-doped content, mesopore-dominated biomass-derived hierarchical porous graphitic carbon for high performance supercapacitors. Electrochimica Acta, 2020, 334, 135615.	5.2	46
12	Functionalized Multi-Walled Carbon Nanotubes Prepared by In Situ Polycondensation of Polyurethane. Macromolecular Chemistry and Physics, 2007, 208, 964-972.	2.2	45
13	Electroactive biopolymer/graphene hydrogels prepared for high-performance supercapacitor electrodes. Electrochimica Acta, 2016, 211, 941-949.	5.2	42
14	Synthesis and Enhancement of Electroactive Biomass/Polypyrrole Hydrogels for High Performance Flexible Allâ€Solidâ€State Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1901393.	3.7	41
15	Structure of functionalized nitrogen-doped graphene hydrogels derived from isomers of phenylenediamine and graphene oxide based on their high electrochemical performance. Electrochimica Acta, 2016, 212, 828-838.	5.2	38
16	Synthesis and Morphology Evolution of Ultrahigh Content Nitrogenâ€Doped, Microporeâ€Dominated Carbon Materials as Highâ€Performance Supercapacitors. ChemSusChem, 2018, 11, 3932-3940.	6.8	36
17	Facile Preparation of an Excellent Mechanical Property Electroactive Biopolymer-Based Conductive Composite Film and Self-Enhancing Cellulose Hydrogel to Construct a High-Performance Wearable Supercapacitor. ACS Sustainable Chemistry and Engineering, 2020, 8, 7879-7891.	6.7	36
18	Synthesis of Highly Hydrophilic Polyaniline Nanowires and Sub-Micro/Nanostructured Dendrites on Poly(propylene) Film Surfaces. Macromolecular Rapid Communications, 2006, 27, 563-569.	3.9	35

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19	Bioinspired strengthening and toughening of carbon nanotube@polyaniline/graphene film using electroactive biomass as glue for flexible supercapacitors with high rate performance and volumetric capacitance, and low-temperature tolerance. Journal of Materials Chemistry A, 2021, 9, 18356-18368.	10.3	31
20	Metalâ€"Organic Coordination Polymer to Prepare Density Controllable and High Nitrogen-Doped Content Carbon/Graphene for High Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 317-326.	8.0	29
21	Arbitrary deformable and high-strength electroactive polymer/MXene anti-exfoliative composite films assembled into high performance, flexible all-solid-state supercapacitors. Nanoscale, 2020, 12, 20797-20810.	5.6	29
22	Ultrahigh specific surface area porous carbon nanospheres and its composite with polyaniline: preparation and application for supercapacitors. RSC Advances, 2016, 6, 25519-25524.	3.6	27
23	A Scalable Route to Highly Functionalized Multiâ€Walled Carbon Nanotubes on a Large Scale. Macromolecular Chemistry and Physics, 2008, 209, 846-853.	2.2	25
24	Synthesis of morphology-tunable electroactive biomass/graphene composites using metal ions for supercapacitors. Nanoscale, 2019, 11, 7304-7316.	5.6	24
25	Nacre-inspired composite films with high mechanical strength constructed from MXenes and wood-inspired hydrothermal cellulose-based nanofibers for high performance flexible supercapacitors. Nanoscale, 2021, 13, 3079-3091.	5.6	24
26	Superhydrophobic polyaniline hollow bars: Constructed with nanorod-arrays based on self-removing metal-monomeric template. Journal of Colloid and Interface Science, 2012, 365, 28-32.	9.4	23
27	Metal-organic coordination polymer/multi-walled carbon nanotubes composites to prepare N-doped hierarchical porous carbon for high performance supercapacitors. Electrochimica Acta, 2018, 284, 69-79.	5.2	23
28	Facile Preparation of a 3D Porous Aligned Graphene-Based Wall Network Architecture by Confined Self-Assembly with Shape Memory for Artificial Muscle, Pressure Sensor, and Flexible Supercapacitor. ACS Applied Materials & Interfaces, 2022, 14, 17739-17753.	8.0	23
29	Mechanically Robust and Elastic Graphene/Aramid Nanofiber/Polyaniline Nanotube Aerogels for Pressure Sensors. ACS Applied Materials & Interfaces, 2022, 14, 17858-17868.	8.0	20
30	Nacre-like laminate nitrogen-doped porous carbon/carbon nanotubes/graphene composite for excellent comprehensive performance supercapacitors. Nanoscale, 2018, 10, 15229-15237.	5.6	19
31	Mechanically stiff and high-areal-performance integrated all-in-wood supercapacitors with electroactive biomass-based hydrogel. Cellulose, 2021, 28, 389-404.	4.9	17
32	2-Methylimidazole assisted synthesis of nanocrystalline shell reinforced PPy hydrogel with high mechanical and electrochemical performance. Chemical Engineering Journal, 2022, 430, 133033.	12.7	17
33	Bimetallic-organic coordination polymers to prepare N-doped hierarchical porous carbon for high performance supercapacitors. Progress in Natural Science: Materials International, 2019, 29, 495-503.	4.4	15
34	Mechanically strong multifunctional three-dimensional crosslinked aramid nanofiber/reduced holey graphene oxide and aramid nanofiber/reduced holey graphene oxide/polyaniline hydrogels and derived films. Nanoscale, 2021, 13, 16734-16747.	5.6	15
35	Biomass Peach Gum-Derived Heteroatom-Doped Porous Carbon via In Situ Molten Salt Activation for High-Performance Supercapacitors. Energy & Fuels, 2021, 35, 19801-19810.	5.1	15
36	Controllable preparation of nitrogen-doped hierarchical and honeycomb-like porous carbon/graphene based on composites of graphene oxide and polyaniline nanorod arrays for high performance supercapacitors. Journal of Energy Storage, 2021, 36, 102314.	8.1	13

#	ARTICLE	IF	CITATIONS
37	Facile route to hierarchical conducting polymer nanostructure: Synthesis of layered polypyrrole network plates. Journal of Applied Polymer Science, 2009, 114, 3855-3862.	2.6	12
38	Strategy for Constructing Nitrogen-Doped Graphene Structure by Patching Reduced Graphene Oxide under Low Temperature and Its Application in Supercapacitors. Industrial & Engineering Chemistry Research, 2020, 59, 7475-7484.	3.7	10
39	Biligand metal-organic coordination polymer to prepare high N-doped content and structure controllable porous carbon with high-electrochemical performance. Electrochimica Acta, 2019, 308, 263-276.	5.2	8