Ziqiang Shao

List of Publications by Year
in descending order

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54	2,015	279701	243529
papers	citations	23	44
		h-index	g-index

54	54	54	3036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	N, P co-doped porous graphene with high electrochemical properties obtained via the laser induction of cellulose nanofibrils. Chinese Journal of Chemical Engineering, 2022, 47, 31-38.	1.7	3
2	Preparation of Fe/N Co-Doped Hierarchical Porous Carbon Nanosheets Derived From Chitosan Nanofibers for High-Performance Supercapacitors. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	1.1	1
3	Selfâ€doping porous carbon materials synthesis from bioâ€wastes sodium lignosulfonate with high performance for supercapacitors. International Journal of Energy Research, 2022, 46, 2373-2384.	2.2	15
4	Green synthesis of polyacrylamide/polyanionic cellulose hydrogels composited with Zr-based coordination polymer and their enhanced mechanical and adsorptive properties. Polymer Journal, 2022, 54, 515-524.	1.3	3
5	Boron and nitrogen co-doped carbon nanospheres for supercapacitor electrode with excellent specific capacitance. Nanotechnology, 2022, 33, 185403.	1.3	5
6	Enhancement strategy of mechanical property by constructing of energetic RDX@CNFs composites in propellants, and investigation on its combustion and sensitivity behavior. Combustion and Flame, 2022, 244, 112249.	2.8	11
7	Multicomponent doped hierarchically porous carbon derived from natural polyelectrolyte for highâ€performance supercapacitors. International Journal of Energy Research, 2022, 46, 17056-17067.	2.2	2
8	Preparation of treelike and rodlike carboxymethylated nanocellulose and their effect on carboxymethyl cellulose films. Journal of Applied Polymer Science, 2021, 138, 50092.	1.3	6
9	Stiffened and toughened polyacrylamide/polyanionic cellulose physical hydrogels mediated by ferric ions. Colloid and Polymer Science, 2021, 299, 999-1009.	1.0	2
10	Cellulose acetateâ€based separators prepared by a reversible acetylation process for highâ€performance lithiumâ€ion batteries. Journal of Applied Polymer Science, 2021, 138, 50738.	1.3	3
11	Biomimetic-Inspired One-Step Strategy for Improvement of Interfacial Interactions in Cellulose Nanofibers by Modification of the Surface of Nitramine Explosives. Langmuir, 2021, 37, 8486-8497.	1.6	14
12	N/O co-doped hierarchically porous carbon with three-dimensional conductive network for high-performance supercapacitors. Journal of Alloys and Compounds, 2021, 873, 159705.	2.8	22
13	Tough and Multifunctional Composite Film Actuators Based on Cellulose Nanofibers toward Smart Wearables. ACS Applied Materials & Interfaces, 2021, 13, 38700-38711.	4.0	43
14	Preparation and characterization of RDX based composite energetic materials with a cellulose matrix. Journal of Applied Polymer Science, 2021, 138, 50329.	1.3	3
15	Robust and Highly Sensitive Cellulose Nanofiber-Based Humidity Actuators. ACS Applied Materials & Interfaces, 2021, 13, 54417-54427.	4.0	29
16	Inch-sized aligned polymer nanofiber films with embedded CH₃NH₃PbBr₃ nanocrystals: electrospinning fabrication using a folded aluminum foil as the collector. Nanotechnology, 2020, 31, 075708.	1.3	11
17	Nanocomposites membranes from cellulose nanofibers, SiO2 and carboxymethyl cellulose with improved properties. Carbohydrate Polymers, 2020, 233, 115818.	5.1	30
18	Ingenious preparation of N/NiO_x co-doped hierarchical porous carbon nanosheets derived from chitosan nanofibers for high-performance supercapacitors. Nanotechnology, 2020, 31, 335713.	1.3	18

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19	O/N-co-doped hierarchically porous carbon from carboxymethyl cellulose ammonium for high-performance supercapacitors. Journal of Materials Science, 2020, 55, 7417-7431.	1.7	24
20	Fe₃O₄/Nitrogenâ€Doped Carbon Electrodes from Tailored Thermal Expansion toward Flexible Solidâ€State Asymmetric Supercapacitors. Advanced Materials Interfaces, 2019, 6, 1901250.	1.9	8
21	Preparation and Characterization of Cellulose/RDX Composite Aerogel Spheres. Propellants, Explosives, Pyrotechnics, 2019, 44, 1613-1620.	1.0	16
22	Zr(IV)â€Crosslinked Polyacrylamide/Polyanionic Cellulose Composite Hydrogels with High Strength and Unique Acid Resistance. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 981-991.	2.4	23
23	Carboxymethyl Cellulose Nanofibrils with a Treelike Matrix: Preparation and Behavior of Pickering Emulsions Stabilization. ACS Sustainable Chemistry and Engineering, 2019, 7, 12887-12896.	3.2	40
24	Redispersibility of cellulose nanoparticles modified by phenyltrimethoxysilane and its application in stabilizing Pickering emulsions. Journal of Materials Science, 2019, 54, 11713-11725.	1.7	19
25	Nanocellulose-derived carbon nanosphere fibers-based nanohybrid aerogel for high-performance all-solid-state flexible supercapacitors. Journal of Materials Science: Materials in Electronics, 2019, 30, 8585-8594.	1.1	14
26	Cellulosic materials-enhanced sandwich structure-like separator via electrospinning towards safer lithium-ion battery. Carbohydrate Polymers, 2019, 214, 328-336.	5.1	62
27	Eco-Friendly Electrochemical Biosensor based on Sodium Carboxymethyl Cellulose/Reduced Graphene Oxide Composite. Macromolecular Research, 2019, 27, 327-333.	1.0	14
28	Low-cost and robust production of multi-doped 2D carbon nanosheets for high-performance lithium-ion capacitors. Chemical Engineering Journal, 2019, 370, 508-517.	6.6	22
29	In-situ fabricated anisotropic halide perovskite nanocrystals in polyvinylalcohol nanofibers: Shape tuning and polarized emission. Nano Research, 2019, 12, 1411-1416.	5.8	54
30	Synergistically Suppressing Lithium Dendrite Growth by Coating Polyâ€<scp>l</scp>â€Lactic Acid on Sustainable Gel Polymer Electrolyte. Energy Technology, 2019, 7, 1800768.	1.8	6
31	CQDs-Doped Magnetic Electrospun Nanofibers: Fluorescence Self-Display and Adsorption Removal of Mercury(II). ACS Omega, 2018, 3, 4220-4230.	1.6	18
32	Biomass-based magnetic fluorescent nanoparticles: One-step scalable synthesis, application as drug carriers and mechanism study. Carbohydrate Polymers, 2018, 184, 277-287.	5.1	13
33	Facile synthesis of magnetic fluorescent nanoparticles: adsorption and selective detection of Hg(ii) in water. Journal of Materials Chemistry C, 2018, 6, 2360-2369.	2.7	27
34	Halloysite nanotubes and Fe3O4 nanoparticles enhanced adsorption removal of heavy metal using electrospun membranes. Applied Clay Science, 2018, 161, 225-234.	2.6	83
35	Dual physically crosslinked healable polyacrylamide/cellulose nanofibers nanocomposite hydrogels with excellent mechanical properties. Carbohydrate Polymers, 2018, 193, 73-81.	5.1	77
36	Dispersion of reduced graphene oxide with montmorillonite for enhancing dielectric properties and thermal stability of cyanoethyl cellulose nanocomposites. Cellulose, 2018, 25, 7143-7152.	2.4	14

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37	Biomass-based O, N-codoped activated carbon aerogels with ultramicropores for supercapacitors. Journal of Materials Science, 2018, 53, 12374-12387.	1.7	59
38	Carboxymethylcellulose ammonium-derived nitrogen-doped carbon fiber/molybdenum disulfide hybrids for high-performance supercapacitor electrodes. RSC Advances, 2018, 8, 28944-28952.	1.7	5
39	Chitosan and carboxymethyl cellulose-multilayered magnetic fluorescent systems for reversible protein immobilization. Carbohydrate Polymers, 2018, 201, 357-366.	5.1	21
40	Cellulosic Biomass-Reinforced Polyvinylidene Fluoride Separators with Enhanced Dielectric Properties and Thermal Tolerance. ACS Applied Materials & Interfaces, 2017, 9, 20885-20894.	4.0	48
41	Using a fully recyclable dicarboxylic acid for producing dispersible and thermally stable cellulose nanomaterials from different cellulosic sources. Cellulose, 2017, 24, 2483-2498.	2.4	77
42	Nitrogen and oxygen-codoped carbon nanospheres for excellent specific capacitance and cyclic stability supercapacitor electrodes. Chemical Engineering Journal, 2017, 330, 1166-1173.	6.6	106
43	A cellulose-based hybrid 2D material aerogel for a flexible all-solid-state supercapacitor with high specific capacitance. RSC Advances, 2017, 7, 43512-43520.	1.7	46
44	Thermally Stable Cellulose Nanocrystals toward High-Performance 2D and 3D Nanostructures. ACS Applied Materials & Interfaces, 2017, 9, 28922-28929.	4.0	53
45	Barium titanate as a filler for improving the dielectric property of cyanoethyl cellulose/antimony tin oxide nanocomposite films. Composites Part A: Applied Science and Manufacturing, 2016, 86, 1-8.	3.8	28
46	Eco-friendly polyvinyl alcohol/cellulose nanofiberâ€“Li⁺ composite separator for high-performance lithium-ion batteries. RSC Advances, 2016, 6, 97912-97920.	1.7	43
47	Preparation and properties of environmental-friendly coatings based on carboxymethyl cellulose nitrate ester & modified alkyd. Carbohydrate Polymers, 2016, 137, 92-99.	5.1	22
48	Preparation and dielectric properties of cyanoethyl cellulose/BaTiO₃ flexible nanocomposite films. RSC Advances, 2015, 5, 15283-15291.	1.7	35
49	Novel polymer Li-ion binder carboxymethyl cellulose derivative enhanced electrochemical performance for Li-ion batteries. Carbohydrate Polymers, 2014, 112, 532-538.	5.1	74
50	Cellulose nanofiber/single-walled carbon nanotube hybrid non-woven macrofiber mats as novel wearable supercapacitors with excellent stability, tailorability and reliability. Nanoscale, 2014, 6, 4083.	2.8	88
51	Enhanced Cyclability of C/Lithium Iron Phosphate Cathodes with a Novel water-soluble lithium-ion binder. Electrochimica Acta, 2014, 145, 11-18.	2.6	24
52	Layer-by-Layer assembled hybrid multilayer thin film electrodes based on transparent cellulose nanofibers paper for flexible supercapacitors applications. Journal of Power Sources, 2014, 249, 148-155.	4.0	111
53	Cellulose nanofiberâ€“graphene all solid-state flexible supercapacitors. Journal of Materials Chemistry A, 2013, 1, 63-67.	5.2	320
54	Paper-based transparent flexible thin film supercapacitors. Nanoscale, 2013, 5, 5307.	2.8	100