

Weimin Chen

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47
papers

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citations

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h-index

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49
ext. papers

1,296
ext. citations

7.8
avg, IF

4.84
L-index

#	Paper	IF	Citations
47	Orange-Emissive Carbon Quantum Dots: Toward Application in Wound pH Monitoring Based on Colorimetric and Fluorescent Changing. <i>Small</i> , 2019 , 15, e1902823	11	69
46	A stretchable and compressible ion gel based on a deep eutectic solvent applied as a strain sensor and electrolyte for supercapacitors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 550-560	7.1	56
45	Preparation of lignin-based porous carbon with hierarchical oxygen-enriched structure for high-performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019 , 540, 524-534	9.3	41
44	Facile synthesis and photoluminescence mechanism of green emitting xylose-derived carbon dots for anti-counterfeit printing. <i>Carbon</i> , 2019 , 146, 636-649	10.4	38
43	Fast co-pyrolysis of waste newspaper with high-density polyethylene for high yields of alcohols and hydrocarbons. <i>Waste Management</i> , 2017 , 67, 155-162	8.6	37
42	Preparation and thermostability of cellulose nanocrystals and nanofibrils from two sources of biomass: rice straw and poplar wood. <i>Cellulose</i> , 2019 , 26, 8625-8643	5.5	35
41	Mxene (Ti3C2T)/cellulose nanofiber/porous carbon film as free-standing electrode for ultrathin and flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2021 , 413, 127524	14.7	34
40	Microwave-assisted KOH activation from lignin into hierarchically porous carbon with super high specific surface area by utilizing the dual roles of inorganic salts: Microwave absorber and porogen. <i>Microporous and Mesoporous Materials</i> , 2020 , 300, 110178	5.3	30
39	Constructing a Novel Electroluminescent Device with High-Temperature and High-Humidity Resistance based on a Flexible Transparent Wood Film. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36010-36019	9.5	27
38	Microwave-assisted synthesis of polyamine-functionalized carbon dots from xylan and their use for the detection of tannic acid. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 213, 301-308	4.4	25
37	Fast enhancement on hydrophobicity of poplar wood surface using low-pressure dielectric barrier discharges (DBD) plasma. <i>Applied Surface Science</i> , 2017 , 407, 412-417	6.7	24
36	Choline chloride-zinc chloride deep eutectic solvent mediated preparation of partial O-acetylation of chitin nanocrystal in one step reaction. <i>Carbohydrate Polymers</i> , 2019 , 220, 211-218	10.3	24
35	Fast microwave self-activation from chitosan hydrogel bead to hierarchical and O, N co-doped porous carbon at an air-free atmosphere for high-rate electrodes material. <i>Carbohydrate Polymers</i> , 2019 , 219, 229-239	10.3	24
34	Rapid single-step synthesis of porous carbon from an agricultural waste for energy storage application. <i>Waste Management</i> , 2020 , 102, 330-339	8.6	24
33	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. <i>Carbohydrate Polymers</i> , 2020 , 246, 116548	10.3	23
32	Fast one-pot microwave preparation and plasma modification of porous carbon from waste lignin for energy storage application. <i>Waste Management</i> , 2019 , 89, 129-140	8.6	22
31	Template-free and fast one-step synthesis from enzymatic hydrolysis lignin to hierarchical porous carbon for CO2 capture. <i>Microporous and Mesoporous Materials</i> , 2019 , 280, 57-65	5.3	19

30	A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO ₂ Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2021 , 11, 2003902	21.8	19
29	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11464-11473	8.3	18
28	Improvement of structure and electrical conductivity of activated carbon by catalytic graphitization using N ₂ plasma pretreatment and iron(III) loading. <i>RSC Advances</i> , 2017 , 7, 44632-44638	3.7	17
27	Ti ₃ C ₂ T _x /carbon nanotube/porous carbon film for flexible supercapacitor. <i>Chemical Engineering Journal</i> , 2022 , 427, 132002	14.7	17
26	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. <i>Nanomaterials</i> , 2019 , 9,	5.4	16
25	Synergistical enhancement of the electrochemical properties of lignin-based activated carbon using NH ₃ /H ₂ O dielectric barrier discharge plasma. <i>RSC Advances</i> , 2017 , 7, 7392-7400	3.7	15
24	Light stabilizers added to the shell of co-extruded wood/high-density polyethylene composites to improve mechanical and anti-UV ageing properties. <i>Royal Society Open Science</i> , 2018 , 5, 180074	3.3	15
23	Rapid synthesis of chitin-based porous carbons with high yield, high nitrogen retention, and low cost for high-rate supercapacitors. <i>International Journal of Energy Research</i> , 2020 , 44, 1167-1178	4.5	13
22	Rapid microwave activation of waste palm into hierarchical porous carbons for supercapacitors using biochars from different carbonization temperatures as catalysts.. <i>RSC Advances</i> , 2019 , 9, 19441-19449	3.7	12
21	Effect of the nanosilica content in the shell of coextruded wood-plastic composites to enhance the ultraviolet aging resistance. <i>Polymers for Advanced Technologies</i> , 2019 , 30, 162-169	3.2	12
20	Sustainable biomass-based hierarchical porous carbon for energy storage: A novel route to maintain electrochemically attractive natural structure of precursor. <i>Science of the Total Environment</i> , 2020 , 747, 141923	10.2	11
19	Fast modification on wheat straw outer surface by water vapor plasma and its application on composite material. <i>Scientific Reports</i> , 2018 , 8, 2279	4.9	10
18	Direct Microwave Conversion from Lignin to Micro/Meso/Macroporous Carbon for High-Performance Symmetric Supercapacitors. <i>ChemElectroChem</i> , 2019 , 6, 4789-4800	4.3	10
17	Atmospheric Low-Temperature Plasma-Induced Changes in the Structure of the Lignin Macromolecule: An Experimental and Theoretical Investigation. <i>Journal of Agricultural and Food Chemistry</i> , 2020 , 68, 451-460	5.7	10
16	Fast oxygen, nitrogen co-functionalization on electrospun lignin-based carbon nanofibers membrane via air plasma for energy storage application. <i>International Journal of Biological Macromolecules</i> , 2020 , 143, 434-442	7.9	10
15	Rapid one-step preparation of hierarchical porous carbon from chitosan-based hydrogel for high-rate supercapacitors: The effect of gelling agent concentration. <i>International Journal of Biological Macromolecules</i> , 2020 , 146, 453-461	7.9	9
14	Simple pyrolysis of alginate-based hydrogel cross-linked by bivalent ions into highly porous carbons for energy storage. <i>International Journal of Biological Macromolecules</i> , 2020 , 158, 265-274	7.9	9
13	Enhancing resin efficiency in plywood production via DBD plasma treatment and atomized air spray of UF resin. <i>Holzforschung</i> , 2018 , 72, 1057-1062	2	7

12	Investigation into the reaction mechanism underlying the atmospheric low-temperature plasma-induced oxidation of cellulose. <i>Carbohydrate Polymers</i> , 2020 , 233, 115632	10.3	7
11	Synthesis of carbon dots with high photocatalytic reactivity by tailoring heteroatom doping. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 330-341	9.3	6
10	MXene loaded onto clean wiper by a dot-matrix drop-casting method as a free-standing electrode for stretchable and flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2021 , 423, 130242	14.7	5
9	Enhancement of the electrochemical properties of commercial coconut shell-based activated carbon by HO dielectric barrier discharge plasma. <i>Royal Society Open Science</i> , 2019 , 6, 180872	3.3	4
8	Fast atmospheric plasma treatment of LLDPE film for preparing formaldehyde emission-free plywood. <i>European Journal of Wood and Wood Products</i> , 2020 , 78, 705-714	2.1	3
7	Nitrogen/sulfur Co-doping strategy to synthesis green-yellow emitting carbon dots derived from xylose: Toward application in pH sensing. <i>Journal of Luminescence</i> , 2020 , 227, 117489	3.8	3
6	Comparative investigation into the interfacial adhesion of plywood prepared by air spray atomization and roller coating. <i>European Journal of Wood and Wood Products</i> , 2021 , 79, 887-896	2.1	2
5	A clean and industrially applicable approach for the production of copper-doped and core-shell structured porous carbon microspheres as supercapacitor electrode materials. <i>Journal of Cleaner Production</i> , 2021 , 282, 124534	10.3	2
4	A comparative study of thermochemical and cold plasma treatment on lignin-based activated carbon for adsorbing Fe(III). <i>Materials Research Express</i> , 2018 , 5, 055602	1.7	2
3	Lignocellulose-based free-standing hybrid electrode with natural vessels-retained, hierarchically pores-constructed and active materials-loaded for high-performance hybrid oxide supercapacitor. <i>International Journal of Biological Macromolecules</i> , 2021 , 187, 903-910	7.9	1
2	Porosity-adjustable MXene film with transverse and longitudinal ion channels for flexible supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021 , 326, 111389	5.3	1
1	Zinc-Ion Batteries: A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO ₂ Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte (Adv. Energy Mater. 25/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170097	21.8	0