

Weimin Chen

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,770
citations

257101

24
h-index

276539

41
g-index

49
all docs

49
docs citations

49
times ranked

1872
citing authors

#	ARTICLE	IF	CITATIONS
1	Orange-emissive Carbon Quantum Dots: Toward Application in Wound pH Monitoring Based on Colorimetric and Fluorescent Changing. <i>Small</i> , 2019, 15, e1902823.	5.2	142
2	Mxene (Ti ₃ C ₂ T _x)/cellulose nanofiber/porous carbon film as free-standing electrode for ultrathin and flexible supercapacitors. <i>Chemical Engineering Journal</i> , 2021, 413, 127524.	6.6	122
3	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.	2.7	109
4	Ti ₃ C ₂ T _x /carbon nanotube/porous carbon film for flexible supercapacitor. <i>Chemical Engineering Journal</i> , 2022, 427, 132002.	6.6	95
5	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. <i>Carbohydrate Polymers</i> , 2020, 246, 116548.	5.1	82
6	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.	5.0	81
7	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.	10.2	77
8	Facile synthesis and photoluminescence mechanism of green emitting xylose-derived carbon dots for anti-counterfeit printing. <i>Carbon</i> , 2019, 146, 636-649.	5.4	68
9	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.	2.4	65
10	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.	3.7	62
11	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.	2.2	56
12	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.	2.0	51
13	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.	4.0	46
14	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.	5.1	46
15	Rapid single-step synthesis of porous carbon from an agricultural waste for energy storage application. <i>Waste Management</i> , 2020, 102, 330-339.	3.7	43
16	Template-free and fast one-step synthesis from enzymatic hydrolysis lignin to hierarchical porous carbon for CO ₂ capture. <i>Microporous and Mesoporous Materials</i> , 2019, 280, 57-65.	2.2	37
17	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.	3.1	35
18	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11464-11473.	3.2	32

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19	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.	5.1	31
20	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.	3.7	30
21	Synthesis of carbon dots with high photocatalytic reactivity by tailoring heteroatom doping. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 330-341.	5.0	30
22	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. <i>Nanomaterials</i> , 2019, 9, 405.	1.9	28
23	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.	1.7	26
24	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.	3.6	25
25	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.	3.6	25
26	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.	6.6	25
27	Investigation into the reaction mechanism underlying the atmospheric low-temperature plasma-induced oxidation of cellulose. <i>Carbohydrate Polymers</i> , 2020, 233, 115632.	5.1	23
28	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.	1.7	22
29	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.	3.9	22
30	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.	1.7	20
31	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.	3.6	20
32	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.	1.1	19
33	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.	1.6	17
34	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.	2.4	17
35	Direct Microwave Conversion from Lignin to Micro/Meso/Macroporous Carbon for High-Performance Symmetric Supercapacitors. <i>ChemElectroChem</i> , 2019, 6, 4789-4800.	1.7	15
36	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.	2.2	15

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37	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.	4.6	15
38	Fast modification on wheat straw outer surface by water vapor plasma and its application on composite material. <i>Scientific Reports</i> , 2018, 8, 2279.	1.6	13
39	Enhancement of the electrochemical properties of commercial coconut shell-based activated carbon by H ₂ O dielectric barrier discharge plasma. <i>Royal Society Open Science</i> , 2019, 6, 180872.	1.1	13
40	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.	1.5	11
41	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.	3.6	11
42	Porosity-adjustable MXene film with transverse and longitudinal ion channels for flexible supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021, 326, 111389.	2.2	11
43	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.	1.3	9
44	Enhancing resin efficiency in plywood production via DBD plasma treatment and atomized air spray of UF resin. <i>Holzforschung</i> , 2018, 72, 1057-1062.	0.9	7
45	Boosting the photothermal conversion efficiency of MXene film by porous wood for Light-driven soft actuators. <i>Chemical Engineering Journal</i> , 2022, 450, 138013.	6.6	7
46	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.	1.3	6
47	Water Evaporation Triggered Self-Assembly of MXene on Non-Carbonized Wood with Well-Aligned Channels as Size-Customizable Free-Standing Electrode for Supercapacitors. <i>Energy and Environmental Materials</i> , 2023, 6, .	7.3	4
48	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.	0.8	3
49	Zinc-Ion Batteries: A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO ₂ Cathode and Polyacrylamide-Chitin Nanofiber Hydrogel Electrolyte (<i>Adv. Energy</i>) Tj ETQq1 1 01784314 rgBT /Ove	1.784314	1