

Yizhong Cao

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,115
citations

236612

25
h-index

243296

44
g-index

58
all docs

58
docs citations

58
times ranked

2167
citing authors

#	ARTICLE	IF	CITATIONS
1	Co-pyrolysis of waste newspaper with high-density polyethylene: Synergistic effect and oil characterization. <i>Energy Conversion and Management</i> , 2016, 112, 41-48.	4.4	159
2	Development and performance evaluation of a new thermal insulation material from rice straw using high frequency hot-pressing. <i>Energy and Buildings</i> , 2015, 87, 116-122.	3.1	152
3	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
4	Mxene (Ti ₃ C ₂ T)/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
5	Microwave-assisted synthesis of xylan-derived carbon quantum dots for tetracycline sensing. <i>Optical Materials</i> , 2018, 85, 329-336.	1.7	97
6	Ti ₃ C ₂ T /carbon nanotube/porous carbon film for flexible supercapacitor. <i>Chemical Engineering Journal</i> , 2022, 427, 132002.	6.6	95
7	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
8	Preparing hierarchical porous carbon aerogels based on enzymatic hydrolysis lignin through ambient drying for supercapacitor electrodes. <i>Microporous and Mesoporous Materials</i> , 2018, 265, 258-265.	2.2	70
9	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
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	Green preparation of palm powder-derived carbon dots co-doped with sulfur/chlorine and their application in visible-light photocatalysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 227, 117659.	2.0	58
12	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
13	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
14	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
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	Electrospun lignin-based composite nanofiber membrane as high-performance absorbent for water purification. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 747-755.	3.6	41
17	Carbonized wood loaded with carbon dots for preparation long-term shape-stabilized composite phase change materials with superior thermal energy conversion capacity. <i>Renewable Energy</i> , 2021, 174, 19-30.	4.3	38
18	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

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19	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
20	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 11464-11473.	3.2	32
21	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
22	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
23	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
24	Electrospun Enzymatic Hydrolysis Lignin-Based Carbon Nanofibers as Binder-Free Supercapacitor Electrodes with High Performance. <i>Polymers</i> , 2018, 10, 1306.	2.0	27
25	One-pot synthesis of multi-functional cellulose-based ionic conductive organohydrogel with low-temperature strain sensitivity. <i>Carbohydrate Polymers</i> , 2021, 251, 117019.	5.1	27
26	Manufacturing and interfacial bonding behavior of plasma-treated-carbon fiber reinforced veneer-based composites. <i>Composite Structures</i> , 2019, 226, 111203.	3.1	26
27	Evaluation of fiber surface modification via air plasma on the interfacial behavior of glass fiber reinforced laminated veneer lumber composites. <i>Construction and Building Materials</i> , 2020, 233, 117315.	3.2	26
28	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
29	Clean plasma modification for recycling waste plastic bags: From improving interfacial adhesion with wood towards fabricating formaldehyde-free plywood. <i>Journal of Cleaner Production</i> , 2020, 269, 122196.	4.6	25
30	Properties of formaldehyde-free environmentally friendly lignocellulosic composites made from poplar fibres and oxygen-plasma-treated enzymatic hydrolysis lignin. <i>Composites Part B: Engineering</i> , 2013, 53, 369-375.	5.9	24
31	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
32	Synergistical enhancement of the electrochemical properties of lignin-based activated carbon using NH_3 - H_2O dielectric barrier discharge plasma. <i>RSC Advances</i> , 2017, 7, 7392-7400.	1.7	22
33	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
34	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
35	TiO ₂ -SiO ₂ nanocomposite aerogel loaded in melamine-impregnated paper for multi-functionalization: Formaldehyde degradation and smoke suppression. <i>Construction and Building Materials</i> , 2018, 161, 381-388.	3.2	18
36	Urea Formaldehyde Resin Resultant Plywood with Rapid Formaldehyde Release Modified by Tunnel-Structured Sepiolite. <i>Polymers</i> , 2019, 11, 1286.	2.0	17

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37	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
38	Design and build an elastic crosslinked network to strengthen and toughen soybean-meal based bioadhesive using organo-sepiolite and greener crosslinker triglycidylamine. <i>Polymer Testing</i> , 2020, 89, 106648.	2.3	17
39	Surface modification of poplar veneer by means of radio frequency oxygen plasma (RF-OP) to improve interfacial adhesion with urea-formaldehyde resin. <i>Holzforschung</i> , 2015, 69, 193-198.	0.9	16
40	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
41	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
42	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
43	Development of an industrial applicable dielectric barrier discharge (DBD) plasma treatment for improving bondability of poplar veneer. <i>Holzforschung</i> , 2016, 70, 683-690.	0.9	14
44	Fast formation of hydrophobic coating on wood surface via an energy-saving dielectric barrier discharges plasma. <i>Progress in Organic Coatings</i> , 2018, 125, 128-136.	1.9	14
45	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
46	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
47	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
48	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
49	GLASS TRANSITION OF OXYGEN PLASMA TREATED ENZYMATIC HYDROLYSIS LIGNIN. <i>BioResources</i> , 2012, 7, .	0.5	10
50	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
51	Large-scale and high-resolution visualization of static mechanical properties of wood-adhesive interphase utilizing nanoindentation mapping. <i>Wood Science and Technology</i> , 2022, 56, 1029-1045.	1.4	8
52	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
53	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
54	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

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55	Cellulose nanocrystals concentration and oil-water ratio for solid-liquid controllable emulsion polymerization. <i>International Journal of Biological Macromolecules</i> , 2021, 191, 414-421.	3.6	6
56	Improvement of the Bondability of Wheat Straw Treated by Water Vapor Plasma for Bio-composites Manufacture. <i>BioResources</i> , 2016, 12, .	0.5	6
57	Sol-Gel condensation of temperature sensitive and shape stabilized phase change materials for thermal energy storage. <i>Thermochimica Acta</i> , 2020, 693, 178758.	1.2	5
58	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