

Yizhong Cao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55
papers

1,119
citations

20
h-index

31
g-index

58
ext. papers

1,620
ext. citations

6.8
avg, IF

5.02
L-index

#	Paper	IF	Citations
55	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	7	109
54	Co-pyrolysis of waste newspaper with high-density polyethylene: Synergistic effect and oil characterization. <i>Energy Conversion and Management</i> , 2016 , 112, 41-48	10.6	103
53	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
52	Microwave-assisted synthesis of xylan-derived carbon quantum dots for tetracycline sensing. <i>Optical Materials</i> , 2018 , 85, 329-336	3.3	57
51	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	5.3	42
50	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
49	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
48	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
47	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	4.4	34
46	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
45	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
44	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
43	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
42	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
41	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
40	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
39	Electrospun lignin-based composite nanofiber membrane as high-performance absorbent for water purification. <i>International Journal of Biological Macromolecules</i> , 2019 , 141, 747-755	7.9	23

38	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
37	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	10	21
36	Electrospun Enzymatic Hydrolysis Lignin-Based Carbon Nanofibers as Binder-Free Supercapacitor Electrodes with High Performance. <i>Polymers</i> , 2018 , 10,	4.5	20
35	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	5.3	19
34	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11464-11473	8.3	18
33	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
32	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
31	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	2	15
30	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	6.7	14
29	Manufacturing and interfacial bonding behavior of plasma-treated-carbon fiber reinforced veneer-based composites. <i>Composite Structures</i> , 2019 , 226, 111203	5.3	13
28	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
27	One-pot synthesis of multi-functional cellulose-based ionic conductive organohydrogel with low-temperature strain sensitivity. <i>Carbohydrate Polymers</i> , 2021 , 251, 117019	10.3	13
26	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	10.3	12
25	Development of an industrial applicable dielectric barrier discharge (DBD) plasma treatment for improving bondability of poplar veneer. <i>Holzforschung</i> , 2016 , 70, 683-690	2	12
24	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	6.7	11
23	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
22	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
21	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

20	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
19	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
18	GLASS TRANSITION OF OXYGEN PLASMA TREATED ENZYMATIc HYDROLYSIS LIGNIN. <i>BioResources</i> , 2012 , 7,	1.3	9
17	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
16	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	4.8	9
15	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	8.1	9
14	Urea Formaldehyde Resin Resultant Plywood with Rapid Formaldehyde Release Modified by Tunnel-Structured Sepiolite. <i>Polymers</i> , 2019 , 11,	4.5	8
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	Improvement of the Bondability of Wheat Straw Treated by Water Vapor Plasma for Bio-composites Manufacture. <i>BioResources</i> , 2016 , 12,	1.3	6
10	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
9	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	4.5	5
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	Sol-Gel condensation of temperature sensitive and shape stabilized phase change materials for thermal energy storage. <i>Thermochimica Acta</i> , 2020 , 693, 178758	2.9	2
5	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
4	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
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

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| 2 | Porosity-adjustable MXene film with transverse and longitudinal ion channels for flexible supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2021 , 326, 111389 | 53 | 1 |
| 1 | Cellulose nanocrystals concentration and oil-water ratio for solid-liquid controllable emulsion polymerization. <i>International Journal of Biological Macromolecules</i> , 2021 , 191, 414-421 | 79 | 1 |