Yizhong Cao

List of Publications by Year in Descending Order

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	Ti3C2Tx/carbon nanotube/porous carbon film for flexible supercapacitor. *Chemical Engineering Journal*, **2022**, 427, 132002	14.7	17
54	Synthesis of carbon dots with high photocatalytic reactivity by tailoring heteroatom doping. *Journal of Colloid and Interface Science*, **2022**, 605, 330-341	9.3	6
53	Comparative investigation into the interfacial adhesion of plywood prepared by air spray atomization and roller coating. *European Journal of Wood and Wood Products*, **2021**, 79, 887-896	2.1	2
52	One-pot synthesis of multi-functional cellulose-based ionic conductive organohydrogel with low-temperature strain sensitivity. *Carbohydrate Polymers*, **2021**, 251, 117019	10.3	13
51	A clean and industrially applicable approach for the production of copper-doped and core-shell structured porous carbon microspheres as supercapacitor electrode materials. *Journal of Cleaner Production*, **2021**, 282, 124534	10.3	2
50	Mxene (Ti3C2T)/cellulose nanofiber/porous carbon film as free-standing electrode for ultrathin and flexible supercapacitors. *Chemical Engineering Journal*, **2021**, 413, 127524	14.7	34
49	Carbonized wood loaded with carbon dots for preparation long-term shape-stabilized composite phase change materials with superior thermal energy conversion capacity. *Renewable Energy*, **2021**, 174, 19-30	8.1	9
48	Lignocellulose-based free-standing hybrid electrode with natural vessels-retained, hierarchically pores-constructed and active materials-loaded for high-performance hybrid oxide supercapacitor. *International Journal of Biological Macromolecules*, **2021**, 187, 903-910	7.9	1
47	Porosity-adjustable MXene film with transverse and longitudinal ion channels for flexible supercapacitors. *Microporous and Mesoporous Materials*, **2021**, 326, 111389	5.3	1
46	Cellulose nanocrystals concentration and oil-water ratio for solid-liquid controllable emulsion polymerization. *International Journal of Biological Macromolecules*, **2021**, 191, 414-421	7.9	1
45	Clean plasma modification for recycling waste plastic bags: From improving interfacial adhesion with wood towards fabricating formaldehyde-free plywood. *Journal of Cleaner Production*, **2020**, 269, 122196	10.3	12
44	Design and build an elastic crosslinked network to strengthen and toughen soybean-meal based bioadhesive using organo-sepiolite and greener crosslinker triglycidylamine. *Polymer Testing*, **2020**, 89, 106648	4.5	5
43	Fast atmospheric plasma treatment of LLDPE film for preparing formaldehyde emission-free plywood. *European Journal of Wood and Wood Products*, **2020**, 78, 705-714	2.1	3
42	Nitrogen/sulfur Co-doping strategy to synthesis green-yellow emitting carbon dots derived from xylose: Toward application in pH sensing. *Journal of Luminescence*, **2020**, 227, 117489	3.8	3
41	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. *Microporous and Mesoporous Materials*, **2020**, 300, 110178	5.3	30
40	Evaluation of fiber surface modification via air plasma on the interfacial behavior of glass fiber reinforced laminated veneer lumber composites. *Construction and Building Materials*, **2020**, 233, 117315	6.7	14
39	Rapid single-step synthesis of porous carbon from an agricultural waste for energy storage application. *Waste Management*, **2020**, 102, 330-339	8.6	24

38	Atmospheric Low-Temperature Plasma-Induced Changes in the Structure of the Lignin Macromolecule: An Experimental and Theoretical Investigation. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 451-460	5.7	10
37	Rapid synthesis of chitin-based porous carbons with high yield, high nitrogen retention, and low cost for high-rate supercapacitors. *International Journal of Energy Research*, **2020**, 44, 1167-1178	4.5	13
36	Fast oxygen, nitrogen co-functionalization on electrospun lignin-based carbon nanofibers membrane via air plasma for energy storage application. *International Journal of Biological Macromolecules*, **2020**, 143, 434-442	7.9	10
35	Investigation into the reaction mechanism underlying the atmospheric low-temperature plasma-induced oxidation of cellulose. *Carbohydrate Polymers*, **2020**, 233, 115632	10.3	7
34	Sustainable biomass-based hierarchical porous carbon for energy storage: A novel route to maintain electrochemically attractive natural structure of precursor. *Science of the Total Environment*, **2020**, 747, 141923	10.2	11
33	Sol-Gel condensation of temperature sensitive and shape stabilized phase change materials for thermal energy storage. *Thermochimica Acta*, **2020**, 693, 178758	2.9	2
32	Simple pyrolysis of alginate-based hydrogel cross-linked by bivalent ions into highly porous carbons for energy storage. *International Journal of Biological Macromolecules*, **2020**, 158, 265-274	7.9	9
31	Green preparation of palm powder-derived carbon dots co-doped with sulfur/chlorine and their application in visible-light photocatalysis. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 227, 117659	4.4	34
30	Constructing a Novel Electroluminescent Device with High-Temperature and High-Humidity Resistance based on a Flexible Transparent Wood Film. *ACS Applied Materials & Interfaces*, **2019**, 11, 36010-36019	9.5	27
29	Electrospun lignin-based composite nanofiber membrane as high-performance absorbent for water purification. *International Journal of Biological Macromolecules*, **2019**, 141, 747-755	7.9	23
28	Microwave-assisted synthesis of polyamine-functionalized carbon dots from xylan and their use for the detection of tannic acid. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 213, 301-308	4.4	25
27	Template-free and fast one-step synthesis from enzymatic hydrolysis lignin to hierarchical porous carbon for CO2 capture. *Microporous and Mesoporous Materials*, **2019**, 280, 57-65	5.3	19
26	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11464-11473	8.3	18
25	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. *Carbohydrate Polymers*, **2019**, 219, 229-239	10.3	24
24	Fast one-pot microwave preparation and plasma modification of porous carbon from waste lignin for energy storage application. *Waste Management*, **2019**, 89, 129-140	8.6	22
23	Urea Formaldehyde Resin Resultant Plywood with Rapid Formaldehyde Release Modified by Tunnel-Structured Sepiolite. *Polymers*, **2019**, 11,	4.5	8
22	Manufacturing and interfacial bonding behavior of plasma-treated-carbon fiber reinforced veneer-based composites. *Composite Structures*, **2019**, 226, 111203	5.3	13
21	Orange-Emissive Carbon Quantum Dots: Toward Application in Wound pH Monitoring Based on Colorimetric and Fluorescent Changing. *Small*, **2019**, 15, e1902823	11	69

20	Direct Microwave Conversion from Lignin to Micro/Meso/Macroporous Carbon for High-Performance Symmetric Supercapacitors. *ChemElectroChem*, **2019**, 6, 4789-4800	4.3	10
19	Facile synthesis and photoluminescence mechanism of green emitting xylose-derived carbon dots for anti-counterfeit printing. *Carbon*, **2019**, 146, 636-649	10.4	38
18	Preparation of lignin-based porous carbon with hierarchical oxygen-enriched structure for high-performance supercapacitors. *Journal of Colloid and Interface Science*, **2019**, 540, 524-534	9.3	41
17	Preparing hierarchical porous carbon aerogels based on enzymatic hydrolysis lignin through ambient drying for supercapacitor electrodes. *Microporous and Mesoporous Materials*, **2018**, 265, 258-265	5.3	42
16	Fast modification on wheat straw outer surface by water vapor plasma and its application on composite material. *Scientific Reports*, **2018**, 8, 2279	4.9	10
15	TiO2-SiO2 nanocomposite aerogel loaded in melamine-impregnated paper for multi-functionalization: Formaldehyde degradation and smoke suppression. *Construction and Building Materials*, **2018**, 161, 381-388	6.7	11
14	Enhancing resin efficiency in plywood production via DBD plasma treatment and atomized air spray of UF resin. *Holzforschung*, **2018**, 72, 1057-1062	2	7
13	Electrospun Enzymatic Hydrolysis Lignin-Based Carbon Nanofibers as Binder-Free Supercapacitor Electrodes with High Performance. *Polymers*, **2018**, 10,	4.5	20
12	Fast formation of hydrophobic coating on wood surface via an energy-saving dielectric barrier discharges plasma. *Progress in Organic Coatings*, **2018**, 125, 128-136	4.8	9
11	Microwave-assisted synthesis of xylan-derived carbon quantum dots for tetracycline sensing. *Optical Materials*, **2018**, 85, 329-336	3.3	57
10	Fast enhancement on hydrophobicity of poplar wood surface using low-pressure dielectric barrier discharges (DBD) plasma. *Applied Surface Science*, **2017**, 407, 412-417	6.7	24
9	Fast co-pyrolysis of waste newspaper with high-density polyethylene for high yields of alcohols and hydrocarbons. *Waste Management*, **2017**, 67, 155-162	8.6	37
8	Synergistical enhancement of the electrochemical properties of lignin-based activated carbon using NH3□H2O dielectric barrier discharge plasma. *RSC Advances*, **2017**, 7, 7392-7400	3.7	15
7	Co-pyrolysis of waste newspaper with high-density polyethylene: Synergistic effect and oil characterization. *Energy Conversion and Management*, **2016**, 112, 41-48	10.6	103
6	Improvement of the Bondability of Wheat Straw Treated by Water Vapor Plasma for Bio-composites Manufacture. *BioResources*, **2016**, 12,	1.3	6
5	Development of an industrial applicable dielectric barrier discharge (DBD) plasma treatment for improving bondability of poplar veneer. *Holzforschung*, **2016**, 70, 683-690	2	12
4	Development and performance evaluation of a new thermal insulation material from rice straw using high frequency hot-pressing. *Energy and Buildings*, **2015**, 87, 116-122	7	109
3	Surface modification of poplar veneer by means of radio frequency oxygen plasma (RF-OP) to improve interfacial adhesion with urea-formaldehyde resin. *Holzforschung*, **2015**, 69, 193-198	2	15

2	Properties of formaldehyde-free environmentally friendly lignocellulosic composites made from poplar fibres and oxygen-plasma-treated enzymatic hydrolysis lignin. *Composites Part B: Engineering*, **2013**, 53, 369-375	10	21
1	GLASS TRANSITION OF OXYGEN PLASMA TREATED ENZYMATIC HYDROLYSIS LIGNIN. *BioResources*, **2012**, 7,	1.3	9