Weimin Chen

List of Publications by Year in Descending Order

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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.

47 papers	819 citations	18 h-index	26 g-index
49 ext. papers	1,296 ext. citations	7.8 avg, IF	4.84 L-index

#	Paper	IF	Citations
47	Ti3C2Tx/carbon nanotube/porous carbon film for flexible supercapacitor. *Chemical Engineering Journal*, **2022**, 427, 132002	14.7	17
46	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
45	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
44	A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO2 Cathode and Polyacrylamide□Chitin Nanofiber Hydrogel Electrolyte. *Advanced Energy Materials*, **2021**, 11, 2003902	21.8	19
43	Zinc-Ion Batteries: A Chemically Self-Charging Flexible Solid-State Zinc-Ion Battery Based on VO2 Cathode and Polyacrylamide□Chitin Nanofiber Hydrogel Electrolyte (Adv. Energy Mater. 25/2021). *Advanced Energy Materials*, **2021**, 11, 2170097	21.8	0
42	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
41	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
40	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
39	Porosity-adjustable MXene film with transverse and longitudinal ion channels for flexible supercapacitors. *Microporous and Mesoporous Materials*, **2021**, 326, 111389	5.3	1
38	MXene loaded onto clean wiper by a dot-matrix drop-casting method as a free-standing electrode for stretchable and flexible supercapacitors. *Chemical Engineering Journal*, **2021**, 423, 130242	14.7	5
37	Production of lignin-containing cellulose nanofibers using deep eutectic solvents for UV-absorbing polymer reinforcement. *Carbohydrate Polymers*, **2020**, 246, 116548	10.3	23
36	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
35	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
34	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
33	A stretchable and compressible ion gel based on a deep eutectic solvent applied as a strain sensor and electrolyte for supercapacitors. *Journal of Materials Chemistry C*, **2020**, 8, 550-560	7.1	56
32	Rapid one-step preparation of hierarchical porous carbon from chitosan-based hydrogel for high-rate supercapacitors: The effect of gelling agent concentration. *International Journal of Biological Macromolecules*, **2020**, 146, 453-461	7.9	9
31	Rapid single-step synthesis of porous carbon from an agricultural waste for energy storage application. *Waste Management*, **2020**, 102, 330-339	8.6	24

30	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
29	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
28	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
27	Investigation into the reaction mechanism underlying the atmospheric low-temperature plasma-induced oxidation of cellulose. *Carbohydrate Polymers*, **2020**, 233, 115632	10.3	7
26	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
25	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
24	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
23	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
22	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
21	Flexible Transparent Sliced Veneer for Alternating Current Electroluminescent Devices. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 11464-11473	8.3	18
20	Choline chloride-zinc chloride deep eutectic solvent mediated preparation of partial O-acetylation of chitin nanocrystal in one step reaction. *Carbohydrate Polymers*, **2019**, 220, 211-218	10.3	24
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. *Carbohydrate Polymers*, **2019**, 219, 229-239	10.3	24
18	Enhancement of the electrochemical properties of commercial coconut shell-based activated carbon by HO dielectric barrier discharge plasma. *Royal Society Open Science*, **2019**, 6, 180872	3.3	4
17	Fast Microwave Synthesis of Hierarchical Porous Carbons from Waste Palm Boosted by Activated Carbons for Supercapacitors. *Nanomaterials*, **2019**, 9,	5.4	16
16	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
15	Preparation and thermostability of cellulose nanocrystals and nanofibrils from two sources of biomass: rice straw and poplar wood. *Cellulose*, **2019**, 26, 8625-8643	5.5	35
14	Rapid microwave activation of waste palm into hierarchical porous carbons for supercapacitors using biochars from different carbonization temperatures as catalysts.. *RSC Advances*, **2019**, 9, 19441-19449	3.7	12
13	Orange-Emissive Carbon Quantum Dots: Toward Application in Wound pH Monitoring Based on Colorimetric and Fluorescent Changing. *Small*, **2019**, 15, e1902823	11	69

12	Direct Microwave Conversion from Lignin to Micro/Meso/Macroporous Carbon for High-Performance Symmetric Supercapacitors. *ChemElectroChem*, **2019**, 6, 4789-4800	4.3	10
11	Facile synthesis and photoluminescence mechanism of green emitting xylose-derived carbon dots for anti-counterfeit printing. *Carbon*, **2019**, 146, 636-649	10.4	38
10	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
9	Effect of the nanosilica content in the shell of coextruded wood-plastic composites to enhance the ultraviolet aging resistance. *Polymers for Advanced Technologies*, **2019**, 30, 162-169	3.2	12
8	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
7	Enhancing resin efficiency in plywood production via DBD plasma treatment and atomized air spray of UF resin. *Holzforschung*, **2018**, 72, 1057-1062	2	7
6	Light stabilizers added to the shell of co-extruded wood/high-density polyethylene composites to improve mechanical and anti-UV ageing properties. *Royal Society Open Science*, **2018**, 5, 180074	3.3	15
5	A comparative study of thermochemical and cold plasma treatment on lignin-based activated carbon for adsorbing Fe(III). *Materials Research Express*, **2018**, 5, 055602	1.7	2
4	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
3	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
2	Synergistical enhancement of the electrochemical properties of lignin-based activated carbon using NH3H2O dielectric barrier discharge plasma. *RSC Advances*, **2017**, 7, 7392-7400	3.7	15
1	Improvement of structure and electrical conductivity of activated carbon by catalytic graphitization using N2 plasma pretreatment and iron(III) loading. *RSC Advances*, **2017**, 7, 44632-44638	3.7	17