

# Wei Liu

## List of Publications by Citations

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66

papers

3,054

citations

30

h-index

55

g-index

67

ext. papers

3,788

ext. citations

10.2

avg, IF

5.6

L-index

#	Paper	IF	Citations
66	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. <i>Nano Energy</i> , <b>2017</b> , 35, 299-320	17.1	264
65	Biomass-Derived Porous Carbon-Based Nanostructures for Microwave Absorption. <i>Nano-Micro Letters</i> , <b>2019</b> , 11, 24	19.5	257
64	N, O-codoped hierarchical porous carbons derived from algae for high-capacity supercapacitors and battery anodes. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 5973-5983	13	206
63	Soot oxidation over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> : Factors determining the catalyst activity and stability during reaction. <i>Journal of Catalysis</i> , <b>2016</b> , 337, 188-198	7.3	204
62	Biomass derived hierarchical porous carbons as high-performance anodes for sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 103-110	6.7	171
61	Rich sulfur doped porous carbon materials derived from ginkgo leaves for multiple electrochemical energy storage devices. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 2204-2214	13	146
60	Two-dimensional biomass-derived carbon nanosheets and MnO/carbon electrodes for high-performance Li-ion capacitors. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 15243-15252	13	110
59	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K Storage Performance. <i>ACS Nano</i> , <b>2019</b> , 13, 11582-11592	16.7	91
58	Extremely high-rate aqueous supercapacitor fabricated using doped carbon nanoflakes with large surface area and mesopores at near-commercial mass loading. <i>Nano Research</i> , <b>2017</b> , 10, 1767-1783	10	88
57	Self-doped carbon architectures with heteroatoms containing nitrogen, oxygen and sulfur as high-performance anodes for lithium- and sodium-ion batteries. <i>Electrochimica Acta</i> , <b>2017</b> , 251, 396-406	6.7	74
56	Controlled Design of Well-Dispersed Ultrathin MoS <sub>2</sub> Nanosheets inside Hollow Carbon Skeleton: Toward Fast Potassium Storage by Constructing Spacious Pores for K Ions. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908755	15.6	73
55	Study of Ag/Ce Nd <sub>1</sub> -O <sub>2</sub> nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 116-126	21.8	67
54	Roles of oxygen vacancy and O <sub>2</sub> in oxidation reactions over CeO <sub>2</sub> and Ag/CeO <sub>2</sub> nanorod model catalysts. <i>Journal of Catalysis</i> , <b>2018</b> , 368, 365-378	7.3	65
53	Fluffy honeycomb-like activated carbon from popcorn with high surface area and well-developed porosity for ultra-high efficiency adsorption of organic dyes. <i>Bioresource Technology</i> , <b>2019</b> , 285, 121340	11	60
52	Study of Ag promoted Fe <sub>2</sub> O <sub>3</sub> @CeO <sub>2</sub> as superior soot oxidation catalysts: The role of Fe <sub>2</sub> O <sub>3</sub> crystal plane and tandem oxygen delivery. <i>Applied Catalysis B: Environmental</i> , <b>2018</b> , 237, 251-262	21.8	57
51	Ultrastable Au nanoparticles on titania through an encapsulation strategy under oxidative atmosphere. <i>Nature Communications</i> , <b>2019</b> , 10, 5790	17.4	56
50	High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS <sub>2</sub> /rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. <i>NPG Asia Materials</i> , <b>2018</b> , 10, 775-787	10.3	54

49	All-carbon lithium capacitor based on salt crystal-templated, N-doped porous carbon electrodes with superior energy storage. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18276-18285	13	54
48	High energy supercapacitors based on interconnected porous carbon nanosheets with ionic liquid electrolyte. <i>Microporous and Mesoporous Materials</i> , <b>2017</b> , 241, 202-209	5.3	50
47	Metal-organic framework derived N-doped CNT@ porous carbon for high-performance sodium- and potassium-ion storage. <i>Electrochimica Acta</i> , <b>2019</b> , 319, 541-551	6.7	47
46	A robust core-shell silver soot oxidation catalyst driven by Co <sub>3</sub> O <sub>4</sub> : Effect of tandem oxygen delivery and Co <sub>3</sub> O <sub>4</sub> -CeO <sub>2</sub> synergy. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 250, 132-142	21.8	45
45	An exploration of soot oxidation over CeO <sub>2</sub> -ZrO <sub>2</sub> nanocubes: Do more surface oxygen vacancies benefit the reaction?. <i>Catalysis Today</i> , <b>2017</b> , 281, 454-459	5.3	43
44	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. <i>ACS Nano</i> , <b>2020</b> , 14, 4938-4949	16.7	43
43	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 38376-38386	9.5	41
42	Activation and deactivation of Ag/CeO <sub>2</sub> during soot oxidation: influences of interfacial ceria reduction. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 2129-2139	5.5	39
41	Biotemplated MnO/C microtubes from spirogyra with improved electrochemical performance for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 210-217	6.7	39
40	Tuning the morphology and structure of nanocarbons with activating agents for ultrafast ionic liquid-based supercapacitors. <i>Journal of Power Sources</i> , <b>2017</b> , 361, 182-194	8.9	37
39	Liquid-State Templates for Constructing B, N, Co-Doping Porous Carbons with a Boosting of Potassium-Ion Storage Performance. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003215	21.8	32
38	Nitrogen-doped porous carbons derived from a natural polysaccharide for multiple energy storage devices. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 381-391	5.8	31
37	Effect of surface modification on high-surface-area carbon nanosheets anode in sodium ion battery. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 227, 1-8	5.3	30
36	Squid inks-derived nanocarbons with unique shell@pearls structure for high performance supercapacitors. <i>Journal of Power Sources</i> , <b>2017</b> , 354, 116-123	8.9	28
35	Boosting pseudocapacitive charge storage in in situ functionalized carbons with a high surface area for high-energy asymmetric supercapacitors. <i>Sustainable Energy and Fuels</i> , <b>2018</b> , 2, 2314-2324	5.8	28
34	Marine microalgae-derived porous ZnMn <sub>2</sub> O <sub>4</sub> /C microspheres and performance evaluation as Li-ion battery Anode by using different binders. <i>Chemical Engineering Journal</i> , <b>2017</b> , 308, 1200-1208	14.7	28
33	Lithium Ion Capacitor with Identical Carbon Electrodes Yields 6 s Charging and 100 000 Cycles Stability with 1% Capacity Fade. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 2867-2877	8.3	28
32	Balanced mesoporous nickel cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. <i>Chemical Engineering Journal</i> , <b>2017</b> , 326, 401-410	14.7	26

31	Sustainable nitrogen-doped carbon electrodes for use in high-performance supercapacitors and Li-ion capacitors. <i>Sustainable Energy and Fuels</i> , <b>2020</b> , 4, 1789-1800	5.8	26
30	High-energy sodium-ion capacitor assembled by hierarchical porous carbon electrodes derived from Enteromorpha. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 6763-6773	4.3	25
29	Fibrous Bio-Carbon Foams: A New Material for Lithium-Ion Hybrid Supercapacitors with Ultrahigh Integrated Energy/Power Density and Ultralong Cycle Life. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 14989-15000	8.3	25
28	Simple Strategy Generating Hydrothermally Stable Core/Shell Platinum Catalysts with Tunable Distribution of Acid Sites. <i>ACS Catalysis</i> , <b>2018</b> , 8, 2796-2804	13.1	23
27	Nitrogen and Sulfur Co-doped Mesoporous Carbon for Sodium Ion Batteries. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 5643-5654	5.6	20
26	Electrospun hetero-CoP/FeP embedded in porous carbon nanofibers: enhanced Na kinetics and specific capacity. <i>Nanoscale</i> , <b>2020</b> , 12, 24477-24487	7.7	19
25	Dual-doped hierarchical porous carbon derived from biomass for advanced supercapacitors and lithium ion batteries.. <i>RSC Advances</i> , <b>2019</b> , 9, 32382-32394	3.7	19
24	Ozone activated Ag/CeO <sub>2</sub> catalysts for soot combustion: The surface and structural influences. <i>Chemical Engineering Journal</i> , <b>2019</b> , 375, 121961	14.7	17
23	Sorghum core-derived carbon sheets as electrodes for a lithium-ion capacitor. <i>RSC Advances</i> , <b>2017</b> , 7, 17178-17183	3.7	16
22	Biomass derived fabrication of a novel sea cucumber-like LiMn <sub>2</sub> O <sub>4</sub> /C composite with a hierarchical porous structure as the cathode for lithium-ion batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 188, 645-652	6.7	16
21	Nitrogen functionalized carbon nanocages optimized as high-performance anodes for sodium ion storage. <i>Electrochimica Acta</i> , <b>2019</b> , 304, 192-201	6.7	14
20	Bio-derived 3D TiO <sub>2</sub> hollow spheres with a mesocrystal nanostructure to achieve improved electrochemical performance of Na-ion batteries in ether-based electrolytes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 3399-3407	13	13
19	Template-assisted loading of FeO nanoparticles inside hollow carbon "rooms" to achieve high volumetric lithium storage. <i>Nanoscale</i> , <b>2020</b> , 12, 10816-10826	7.7	12
18	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS <sub>2</sub> Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2101343	21.8	12
17	Robust [email protected]/TiO <sub>2</sub> Catalysts for Hydrocarbon Combustion: Effects of Pt-TiOx Interaction and Sulfates. <i>ACS Catalysis</i> , <b>2020</b> , 10, 13543-13548	13.1	11
16	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. <i>Green Chemistry</i> , <b>2018</b> , 20, 3954-3962	10	11
15	Biogel-Derived Polycrystalline MnO Spheres/S-Doped Carbon Composites with Enhanced Performance as Anode Materials for Lithium-Ion Batteries. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1411-1418	4.3	10
14	High-Performance Sodium-Ion Capacitor Constructed by Well-Matched Dual-Carbon Electrodes from a Single Biomass. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> ,	8.3	9

13	Thermally stable Ag/Al <sub>2</sub> O <sub>3</sub> confined catalysts with high diffusion-induced oxidation activity. <i>Catalysis Today</i> , <b>2019</b> , 332, 189-194	5.3	9
12	Bio-derived yellow porous TiO: the lithiation induced activation of an oxygen-vacancy dominated TiO lattice evoking a large boost in lithium storage performance. <i>Nanoscale</i> , <b>2020</b> , 12, 746-754	7.7	7
11	Nitrate Salt Assisted Fabrication of Highly N-Doped Carbons for High-Performance Sodium Ion Capacitors. <i>ACS Applied Energy Materials</i> , <b>2018</b> ,	6.1	7
10	Fe nanopowder-assisted fabrication of FeO/porous carbon for boosting potassium-ion storage performance. <i>Nanoscale</i> , <b>2021</b> , 13, 2481-2491	7.7	5
9	Polymer salt-derived carbon-based nanomaterials for high-performance hybrid Li-ion capacitors. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 7811-7822	4.3	4
8	Space-Confined Fabrication of MoS <sub>2</sub> @Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000953	4.6	4
7	BlainsHillsA New Model to Design Biomass-Derived Carbon Electrode Materials for High-Performance Potassium Ion Hybrid Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 3931-3941	8.3	3
6	Microzone-explosion synthesis of porous carbon electrodes for advanced aqueous solid-state supercapacitors with a high-voltage gel electrolyte. <i>Journal of Energy Chemistry</i> , <b>2021</b> , 60, 95-103	12	2
5	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 2075-2084	13	1
4	Cable-like heterogeneous porous carbon fibers with ultrahigh-rate capability and long cycle life for fast charging lithium-ion storage devices. <i>Nanoscale</i> , <b>2019</b> , 11, 20893-20902	7.7	1
3	Biomaterialized Mesocrystal KCl Microreactor for Solid-State Synthesis of Non-Oxide Nanomaterials.. <i>Small Methods</i> , <b>2022</b> , e2101207	12.8	0
2	Cyano groups: New active sites of porous carbon materials achieving a superior K-ion storage. <i>Carbon</i> , <b>2021</b> , 184, 156-166	10.4	0
1	2D molten salt strategy for preparing large-sized MoS <sub>2</sub> /C sheets with self-adaptive structural deformation for K-ion storage. <i>Chemical Engineering Journal</i> , <b>2022</b> , 440, 135871	14.7	0