Wei Liu

List of Publications by Year in Descending Order

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	Intercalation pseudocapacitance of hollow carbon bubbles with multilayered shells for boosting K-ion storage. *Journal of Materials Chemistry A*, **2022**, 10, 2075-2084	13	1
65	Biomineralized Mesocrystal KCl Microreactor for Solid-State Synthesis of Non-Oxide Nanomaterials.. *Small Methods*, **2022**, e2101207	12.8	0
64	2D molten salt strategy for preparing large-sized MoS2/C sheets with self-adaptive structural deformation for K-ion storage. *Chemical Engineering Journal*, **2022**, 440, 135871	14.7	0
63	Liquid-State Templates for Constructing B, N, Co-Doping Porous Carbons with a Boosting of Potassium-Ion Storage Performance. *Advanced Energy Materials*, **2021**, 11, 2003215	21.8	32
62	Fe nanopowder-assisted fabrication of FeO/porous carbon for boosting potassium-ion storage performance. *Nanoscale*, **2021**, 13, 2481-2491	7.7	5
61	Plains Hills A New Model to Design Biomass-Derived Carbon Electrode Materials for High-Performance Potassium Ion Hybrid Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 3931-3941	8.3	3
60	Water-Soluble Salt Template-Assisted Anchor of Hollow FeS2 Nanoparticle Inside 3D Carbon Skeleton to Achieve Fast Potassium-Ion Storage. *Advanced Energy Materials*, **2021**, 11, 2101343	21.8	12
59	Microzone-explosion synthesis of porous carbon electrodes for advanced aqueous solid-state supercapacitors with a high-voltage gel electrolyte. *Journal of Energy Chemistry*, **2021**, 60, 95-103	12	2
58	Cyano groups: New active sites of porous carbon materials achieving a superior K-ion storage. *Carbon*, **2021**, 184, 156-166	10.4	0
57	Robust /TiO2 Catalysts for Hydrocarbon Combustion: Effects of Pt-TiOx Interaction and Sulfates. *ACS Catalysis*, **2020**, 10, 13543-13548	13.1	11
56	Controlled Design of Well-Dispersed Ultrathin MoS2 Nanosheets inside Hollow Carbon Skeleton: Toward Fast Potassium Storage by Constructing Spacious Houses for K Ions. *Advanced Functional Materials*, **2020**, 30, 1908755	15.6	73
55	Rigid-Flexible Coupling Carbon Skeleton and Potassium-Carbonate-Dominated Solid Electrolyte Interface Achieving Superior Potassium-Ion Storage. *ACS Nano*, **2020**, 14, 4938-4949	16.7	43
54	Sustainable nitrogen-doped carbon electrodes for use in high-performance supercapacitors and Li-ion capacitors. *Sustainable Energy and Fuels*, **2020**, 4, 1789-1800	5.8	26
53	Bio-derived yellow porous TiO: the lithiation induced activation of an oxygen-vacancy dominated TiO lattice evoking a large boost in lithium storage performance. *Nanoscale*, **2020**, 12, 746-754	7.7	7
52	Electrospun hetero-CoP/FeP embedded in porous carbon nanofibers: enhanced Na kinetics and specific capacity. *Nanoscale*, **2020**, 12, 24477-24487	7.7	19
51	Space-Confined Fabrication of MoS2@Carbon Tubes with Semienclosed Architecture Achieving Superior Cycling Capability for Sodium Ion Storage. *Advanced Materials Interfaces*, **2020**, 7, 2000953	4.6	4
50	Template-assisted loading of FeO nanoparticles inside hollow carbon "rooms" to achieve high volumetric lithium storage. *Nanoscale*, **2020**, 12, 10816-10826	7.7	12

49	Nitrogen and Sulfur Co-doped Mesoporous Carbon for Sodium Ion Batteries. *ACS Applied Nano Materials*, **2019**, 2, 5643-5654	5.6	20
48	Bioinspired Mineralization under Freezing Conditions: An Approach to Fabricate Porous Carbons with Complicated Architecture and Superior K Storage Performance. *ACS Nano*, **2019**, 13, 11582-11592	16.7	91
47	Bio-derived 3D TiO2 hollow spheres with a mesocrystal nanostructure to achieve improved electrochemical performance of Na-ion batteries in ether-based electrolytes. *Journal of Materials Chemistry A*, **2019**, 7, 3399-3407	13	13
46	High-Performance Sodium-Ion Capacitor Constructed by Well-Matched Dual-Carbon Electrodes from a Single Biomass. *ACS Sustainable Chemistry and Engineering*, **2019**,	8.3	9
45	Ozone activated Ag/CeO2 catalysts for soot combustion: The surface and structural influences. *Chemical Engineering Journal*, **2019**, 375, 121961	14.7	17
44	Nitrogen functionalized carbon nanocages optimized as high-performance anodes for sodium ion storage. *Electrochimica Acta*, **2019**, 304, 192-201	6.7	14
43	A robust core-shell silver soot oxidation catalyst driven by Co3O4: Effect of tandem oxygen delivery and Co3O4-CeO2 synergy. *Applied Catalysis B: Environmental*, **2019**, 250, 132-142	21.8	45
42	Biomass-Derived Porous Carbon-Based Nanostructures for Microwave Absorption. *Nano-Micro Letters*, **2019**, 11, 24	19.5	257
41	Fluffy honeycomb-like activated carbon from popcorn with high surface area and well-developed porosity for ultra-high efficiency adsorption of organic dyes. *Bioresource Technology*, **2019**, 285, 121340	11	60
40	Polymer salt-derived carbon-based nanomaterials for high-performance hybrid Li-ion capacitors. *Journal of Materials Science*, **2019**, 54, 7811-7822	4.3	4
39	Thermally stable Ag/Al2O3 confined catalysts with high diffusion-induced oxidation activity. *Catalysis Today*, **2019**, 332, 189-194	5.3	9
38	Metal-organic framework derived N-doped CNT@ porous carbon for high-performance sodium- and potassium-ion storage. *Electrochimica Acta*, **2019**, 319, 541-551	6.7	47
37	Ultrastable Au nanoparticles on titania through an encapsulation strategy under oxidative atmosphere. *Nature Communications*, **2019**, 10, 5790	17.4	56
36	Dual-doped hierarchical porous carbon derived from biomass for advanced supercapacitors and lithium ion batteries.. *RSC Advances*, **2019**, 9, 32382-32394	3.7	19
35	Cable-like heterogeneous porous carbon fibers with ultrahigh-rate capability and long cycle life for fast charging lithium-ion storage devices. *Nanoscale*, **2019**, 11, 20893-20902	7.7	1
34	Lithium Ion Capacitor with Identical Carbon Electrodes Yields 6 s Charging and 100 000 Cycles Stability with 1% Capacity Fade. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2867-2877	8.3	28
33	Simple Strategy Generating Hydrothermally Stable Core–Shell Platinum Catalysts with Tunable Distribution of Acid Sites. *ACS Catalysis*, **2018**, 8, 2796-2804	13.1	23
32	High-energy sodium-ion capacitor assembled by hierarchical porous carbon electrodes derived from Enteromorpha. *Journal of Materials Science*, **2018**, 53, 6763-6773	4.3	25

31	Non-carbon coating: a new strategy for improving lithium ion storage of carbon matrix. *Green Chemistry*, **2018**, 20, 3954-3962	10	11
30	Boosting pseudocapacitive charge storage in in situ functionalized carbons with a high surface area for high-energy asymmetric supercapacitors. *Sustainable Energy and Fuels*, **2018**, 2, 2314-2324	5.8	28
29	High-performance sodium-ion hybrid capacitors based on an interlayer-expanded MoS2/rGO composite: surpassing the performance of lithium-ion capacitors in a uniform system. *NPG Asia Materials*, **2018**, 10, 775-787	10.3	54
28	Study of Ag promoted Fe2O3@CeO2 as superior soot oxidation catalysts: The role of Fe2O3 crystal plane and tandem oxygen delivery. *Applied Catalysis B: Environmental*, **2018**, 237, 251-262	21.8	57
27	Nitrogen-doped porous carbons derived from a natural polysaccharide for multiple energy storage devices. *Sustainable Energy and Fuels*, **2018**, 2, 381-391	5.8	31
26	Roles of oxygen vacancy and O□n oxidation reactions over CeO2 and Ag/CeO2 nanorod model catalysts. *Journal of Catalysis*, **2018**, 368, 365-378	7.3	65
25	Marine-Biomass-Derived Porous Carbon Sheets with a Tunable N-Doping Content for Superior Sodium-Ion Storage. *ACS Applied Materials & Interfaces*, **2018**, 10, 38376-38386	9.5	41
24	Nitrate Salt Assisted Fabrication of Highly N-Doped Carbons for High-Performance Sodium Ion Capacitors. *ACS Applied Energy Materials*, **2018**,	6.1	7
23	Fibrous Bio-Carbon Foams: A New Material for Lithium-Ion Hybrid Supercapacitors with Ultrahigh Integrated Energy/Power Density and Ultralong Cycle Life. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14989-15000	8.3	25
22	All-carbon lithium capacitor based on salt crystal-templated, N-doped porous carbon electrodes with superior energy storage. *Journal of Materials Chemistry A*, **2018**, 6, 18276-18285	13	54
21	An exploration of soot oxidation over CeO2-ZrO2 nanocubes: Do more surface oxygen vacancies benefit the reaction?. *Catalysis Today*, **2017**, 281, 454-459	5.3	43
20	High energy supercapacitors based on interconnected porous carbon nanosheets with ionic liquid electrolyte. *Microporous and Mesoporous Materials*, **2017**, 241, 202-209	5.3	50
19	Biogel-Derived Polycrystalline MnO Spheres/S-Doped Carbon Composites with Enhanced Performance as Anode Materials for Lithium-Ion Batteries. *ChemElectroChem*, **2017**, 4, 1411-1418	4.3	10
18	Activation and deactivation of Ag/CeO2 during soot oxidation: influences of interfacial ceria reduction. *Catalysis Science and Technology*, **2017**, 7, 2129-2139	5.5	39
17	Squid inks-derived nanocarbons with unique □hell@pearls□tructure for high performance supercapacitors. *Journal of Power Sources*, **2017**, 354, 116-123	8.9	28
16	Balanced mesoporous nickle cobaltite-graphene and doped carbon electrodes for high-performance asymmetric supercapacitor. *Chemical Engineering Journal*, **2017**, 326, 401-410	14.7	26
15	Nanocellulose-based conductive materials and their emerging applications in energy devices - A review. *Nano Energy*, **2017**, 35, 299-320	17.1	264
14	Extremely high-rate aqueous supercapacitor fabricated using doped carbon nanoflakes with large surface area and mesopores at near-commercial mass loading. *Nano Research*, **2017**, 10, 1767-1783	10	88

13	Sorghum core-derived carbon sheets as electrodes for a lithium-ion capacitor. *RSC Advances*, **2017**, 7, 17178-17183	3.7	16
12	Rich sulfur doped porous carbon materials derived from ginkgo leaves for multiple electrochemical energy storage devices. *Journal of Materials Chemistry A*, **2017**, 5, 2204-2214	13	146
11	Self-doped carbon architectures with heteroatoms containing nitrogen, oxygen and sulfur as high-performance anodes for lithium- and sodium-ion batteries. *Electrochimica Acta*, **2017**, 251, 396-406	6.7	74
10	Two-dimensional biomass-derived carbon nanosheets and MnO/carbon electrodes for high-performance Li-ion capacitors. *Journal of Materials Chemistry A*, **2017**, 5, 15243-15252	13	110
9	Tuning the morphology and structure of nanocarbons with activating agents for ultrafast ionic liquid-based supercapacitors. *Journal of Power Sources*, **2017**, 361, 182-194	8.9	37
8	Study of Ag/Ce Nd1-O2 nanocubes as soot oxidation catalysts for gasoline particulate filters: Balancing catalyst activity and stability by Nd doping. *Applied Catalysis B: Environmental*, **2017**, 203, 116-126	21.8	67
7	Marine microalgaes-derived porous ZnMn 2 O 4 /C microspheres and performance evaluation as Li-ion battery Anode by using different binders. *Chemical Engineering Journal*, **2017**, 308, 1200-1208	14.7	28
6	Biomass derived fabrication of a novel sea cucumber-like LiMn 2 O 4 /C composite with a hierarchical porous structure as the cathode for lithium-ion batteries. *Electrochimica Acta*, **2016**, 188, 645-652	6.7	16
5	Effect of surface modification on high-surface-area carbon nanosheets anode in sodium ion battery. *Microporous and Mesoporous Materials*, **2016**, 227, 1-8	5.3	30
4	Soot oxidation over CeO2 and Ag/CeO2: Factors determining the catalyst activity and stability during reaction. *Journal of Catalysis*, **2016**, 337, 188-198	7.3	204
3	N, O-codoped hierarchical porous carbons derived from algae for high-capacity supercapacitors and battery anodes. *Journal of Materials Chemistry A*, **2016**, 4, 5973-5983	13	206
2	Biotemplated MnO/C microtubes from spirogyra with improved electrochemical performance for lithium-ion batterys. *Electrochimica Acta*, **2016**, 188, 210-217	6.7	39
1	Biomass derived hierarchical porous carbons as high-performance anodes for sodium-ion batteries. *Electrochimica Acta*, **2016**, 188, 103-110	6.7	171