Lihua Gan

List of Publications by Year
in descending order

64 papers	5,950 citations	46918 47 h-index	106150 65 g-index
65 all docs	65 docs citations	65 times ranked	5401 citing authors

#	Article	IF	Citations
1	Trapping precursor-level functionalities in hierarchically porous carbons prepared by a pre-stabilization route for superior supercapacitors. Chinese Chemical Letters, 2023, 34, 107304.	4.8	31
2	High-energy aqueous supercapacitors enabled by N/O codoped carbon nanosheets and â€œwater-in-saltâ€• electrolyte. Chinese Chemical Letters, 2022, 33, 2681-2686.	4.8	50
3	<i>In situ</i> nanoarchitecturing of conjugated polyamide network-derived carbon cathodes toward high energy-power Zn-ion capacitors. Journal of Materials Chemistry A, 2022, 10, 611-621.	5.2	117
4	Unraveling the role of solventâ€“precursor interaction in fabricating heteroatomic carbon cathode for high-energy-density Zn-ion storage. Journal of Materials Chemistry A, 2022, 10, 9837-9847.	5.2	47
5	Kinetics-driven design of 3D VN/MXene composite structure for superior zinc storage and charge transfer. Journal of Power Sources, 2022, 536, 231512.	4.0	47
6	Spatial Confinement Strategy for Micelle-Size-Mediated Modulation of Mesopores in Hierarchical Porous Carbon Nanosheets with an Efficient Capacitive Response. ACS Applied Materials & Interfaces, 2022, 14, 33328-33339.	4.0	73
7	Thio-groups decorated covalent triazine frameworks for selective mercury removal. Journal of Hazardous Materials, 2021, 403, 123702.	6.5	60
8	Highly N/O co-doped ultramicroporous carbons derived from nonporous metal-organic framework for high performance supercapacitors. Chinese Chemical Letters, 2021, 32, 1491-1496.	4.8	65
9	Boron â€œgluingâ€• nitrogen heteroatoms in a prepolymerized ionic liquid-based carbon scaffold for durable supercapacitive activity. Journal of Materials Chemistry A, 2021, 9, 2714-2724.	5.2	67
10	Ionic Liquids for Supercapacitive Energy Storage: A Mini-Review. Energy & Fuels, 2021, 35, 8443-8455.	2.5	115
11	Porous carbon globules with moss-like surfaces from semi-biomass interpenetrating polymer network for efficient charge storage. Chinese Chemical Letters, 2021, 32, 3811-3816.	4.8	38
12	Adapting a Kinetics-Enhanced Carbon Nanostructure to Li/Na Hybrid Water-in-Salt Electrolyte for High-Energy Aqueous Supercapacitors. ACS Applied Energy Materials, 2021, 4, 5727-5737.	2.5	57
13	A robust strategy of solvent choice to synthesize optimal nanostructured carbon for efficient energy storage. Carbon, 2021, 180, 135-145.	5.4	88
14	Three-dimensional hierarchical porous carbon derived from resorcinol formaldehyde-zinc tatrate/poly(styrene-maleic anhydride) for high performance supercapacitor electrode. Journal of Alloys and Compounds, 2021, 886, 161176.	2.8	39
15	Facile construction of highly redox active carbons with regular micropores and rod-like morphology towards high-energy supercapacitors. Materials Chemistry Frontiers, 2021, 5, 3061-3072.	3.2	69
16	Selfâ€Assembled Carbon Superstructures Achieving Ultraâ€Stable and Fast Protonâ€Coupled Charge Storage Kinetics. Advanced Materials, 2021, 33, e2104148.	11.1	174
17	Water-in-salt electrolyte ion-matched N/O codoped porous carbons for high-performance supercapacitors. Chinese Chemical Letters, 2020, 31, 579-582.	4.8	39
18	Improving the pore-ion size compatibility between poly(ionic liquid)-derived carbons and high-voltage electrolytes for high energy-power supercapacitors. Chemical Engineering Journal, 2020, 382, 122945.	6.6	81

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19	Carbon hydrangeas with typical ionic liquid matched pores for advanced supercapacitors. Carbon, 2020, 168, 499-507.	5.4	110
20	Core-shell hierarchical porous carbon spheres with N/O doping for efficient energy storage. Electrochimica Acta, 2020, 358, 136899.	2.6	90
21	Recent advances in carbon-based supercapacitors. Materials Advances, 2020, 1, 945-966.	2.6	207
22	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. Chinese Chemical Letters, 2020, 31, 1226-1230.	4.8	78
23	A universal strategy to obtain highly redox-active porous carbons for efficient energy storage. Journal of Materials Chemistry A, 2020, 8, 3717-3725.	5.2	79
24	Hydrangea-like N/O codoped porous carbons for high-energy supercapacitors. Chemical Engineering Journal, 2020, 388, 124208.	6.6	75
25	Deep-eutectic-solvent synthesis of N/O self-doped hollow carbon nanorods for efficient energy storage. Chemical Communications, 2019, 55, 11219-11222.	2.2	101
26	Synergistic design of aÂN, O co-doped honeycomb carbon electrode and an ionogel electrolyte enabling all-solid-state supercapacitors with an ultrahigh energy density. Journal of Materials Chemistry A, 2019, 7, 816-826.	5.2	134
27	Ultrahigh energy density of aÂN, O codoped carbon nanosphere based all-solid-state symmetric supercapacitor. Journal of Materials Chemistry A, 2019, 7, 1177-1186.	5.2	188
28	Ternary-doped carbon electrodes for advanced aqueous solid-state supercapacitors based on a â€œwater-in-saltâ€•gel electrolyte. Journal of Materials Chemistry A, 2019, 7, 15801-15811.	5.2	130
29	High-energy flexible solid-state supercapacitors based on O, N, S-tridoped carbon electrodes and a 3.5â€V gel-type electrolyte. Chemical Engineering Journal, 2019, 372, 1216-1225.	6.6	103
30	Template-Free, Self-Doped Approach to Porous Carbon Spheres with High N/O Contents for High-Performance Supercapacitors. ACS Sustainable Chemistry and Engineering, 2019, 7, 7024-7034.	3.2	147
31	From interpenetrating polymer networks to hierarchical porous carbons for advanced supercapacitor electrodes. Chinese Chemical Letters, 2019, 30, 1445-1449.	4.8	58
32	Nanocarbonâ€Based Materials for Flexible Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2018, 30, e1705489.	11.1	330
33	Ultramicroporous carbon nanoparticles derived from metalâ€"organic framework nanoparticles for high-performance supercapacitors. Materials Chemistry and Physics, 2018, 211, 234-241.	2.0	68
34	Cooking carbon with protic salt: Nitrogen and sulfur self-doped porous carbon nanosheets for supercapacitors. Chemical Engineering Journal, 2018, 347, 233-242.	6.6	160
35	N, S Co-doped hierarchical porous carbon rods derived from protic salt: Facile synthesis for high energy density supercapacitors. Electrochimica Acta, 2018, 274, 378-388.	2.6	105
36	Nitrogen-Enriched Hollow Porous Carbon Nanospheres with Tailored Morphology and Microstructure for All-Solid-State Symmetric Supercapacitors. ACS Applied Energy Materials, 2018, 1, 4293-4303.	2.5	72

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37	Schiff-Base/Resin Copolymer under Hypersaline Condition to High-Level N-Doped Porous Carbon Nanosheets for Supercapacitors. ACS Applied Nano Materials, 2018, 1, 4998-5007.	2.4	63
38	A general strategy to synthesize high-level N-doped porous carbons <i>via</i> Schiff-base chemistry for supercapacitors. Journal of Materials Chemistry A, 2018, 6, 12334-12343.	5.2	130
39	Poly(ionic liquid)-derived, N, S-codoped ultramicroporous carbon nanoparticles for supercapacitors. Chemical Engineering Journal, 2017, 317, 651-659.	6.6	140
40	Design of carbon materials with ultramicro-, supermicro- and mesopores using solvent- and self-template strategy for supercapacitors. Microporous and Mesoporous Materials, 2017, 253, 1-9.	2.2	91
41	Coreâ€“shell reduced graphene oxide/MnO @carbon hollow nanospheres for high performance supercapacitor electrodes. Chemical Engineering Journal, 2017, 313, 518-526.	6.6	137
42	Nitrogen-doped porous carbons with nanofiber-like structure derived from poly (aniline-co-p-phenylenediamine) for supercapacitors. Electrochimica Acta, 2017, 224, 17-24.	2.6	79
43	A novel synthesis of hierarchical porous carbons from interpenetrating polymer networks for high performance supercapacitor electrodes. Carbon, 2017, 111, 667-674.	5.4	165
44	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. Chemical Engineering Journal, 2017, 308, 240-247.	6.6	163
45	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. Electrochimica Acta, 2016, 205, 132-141.	2.6	130
46	Nitrogen-containing carbon microspheres for supercapacitor electrodes. Electrochimica Acta, 2015, 158, 166-174.	2.6	145
47	Template-Engaged In Situ Synthesis of Carbon-Doped Monoclinic Mesoporous BiVO4: Photocatalytic Treatment of Rhodamine B. Journal of Materials Engineering and Performance, 2015, 24, 2359-2367.	1.2	5
48	Coreâ€“shell ultramicroporous@microporous carbon nanospheres as advanced supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 11517-11526.	5.2	163
49	Facile synthesis of mesoporous cobalt oxide rugby balls for electrochemical energy storage. New Journal of Chemistry, 2015, 39, 68-71.	1.4	12
50	Mesoporous size controllable carbon microspheres and their electrochemical performances for supercapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 8407-8415.	5.2	161
51	A facile synthesis of a novel mesoporous Ge@C sphere anode with stable and high capacity for lithium ion batteries. Journal of Materials Chemistry A, 2014, 2, 17107-17114.	5.2	180
52	Tuned surface area and mesopore diameter of ordered mesoporous carbon: ultrahigh decontamination of di(2-ethylhexyl)phthalate. RSC Advances, 2014, 4, 23853-23860.	1.7	8
53	Graphitized carbon from wastepaper as electrodes for high-performance electric double-layer capacitors. Journal of Solid State Electrochemistry, 2014, 18, 2481-2486.	1.2	2
54	Development of MnO₂/porous carbon microspheres with a partially graphitic structure for high performance supercapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 2555-2562.	5.2	292

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55	One-pot assembly of silica@two polymeric shells for synthesis of hollow carbon porous nanospheres: Adsorption of bisphenol A. Materials Letters, 2014, 120, 108-110.	1.3	20
56	The structural optimization and high electrochemical behavior of porous carbons by graphitization in molten sodium metals. Electrochimica Acta, 2014, 117, 486-491.	2.6	8
57	Enlargement of uniform micropores in hierarchically ordered microâ€"mesoporous carbon for high level decontamination of bisphenol A. Journal of Materials Chemistry A, 2014, 2, 8534.	5.2	73
58	High surface area ordered mesoporous carbon for high-level removal of rhodamine B. Journal of Materials Science, 2013, 48, 8003-8013.	1.7	31
59	Synthesis of micro- and mesoporous carbon spheres for supercapacitor electrode. Journal of Solid State Electrochemistry, 2013, 17, 2293-2301.	1.2	98
60	A low-temperature single-source route to an efficient broad-band cerium(iii) photocatalyst using a bimetallic polyoxotitanium cage. RSC Advances, 2013, 3, 13659.	1.7	27
61	A seeded synthetic strategy for uniform polymer and carbon nanospheres with tunable sizes for high performance electrochemical energy storage. Chemical Communications, 2013, 49, 3043.	2.2	58
62	Self-Assembly of CdTe Nanocrystals into Two-Dimensional Nanoarchitectures at the Airâ˜'Liquid Interface Induced by Gemini Surfactant of 1,3-Bis(hexadecyldimethylammonium) Propane Dibromide. Journal of Physical Chemistry C, 2008, 112, 6689-6694.	1.5	14
63	Preparation and characterization of silica-titania aerogel-like balls by ambient pressure drying. Journal of Sol-Gel Science and Technology, 2007, 41, 203-207.	1.1	19
64	Synthesis of Alumina Aerogels by Ambient Drying Method and Control of Their Structures. Journal of Porous Materials, 2005, 12, 317-321.	1.3	26