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	Nanocarbonâ€Based Materials for Flexible Allâ€Solidâ€State Supercapacitors. Advanced Materials, 2018, 30, e1705489.	11.1	330
2	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
3	Recent advances in carbon-based supercapacitors. Materials Advances, 2020, 1, 945-966.	2.6	207
4	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
5	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
6	Selfâ€Assembled Carbon Superstructures Achieving Ultraâ€Stable and Fast Protonâ€Coupled Charge Storage Kinetics. Advanced Materials, 2021, 33, e2104148.	11.1	174
7	A novel synthesis of hierarchical porous carbons from interpenetrating polymer networks for high performance supercapacitor electrodes. Carbon, 2017, 111, 667-674.	5.4	165
8	Coreâ€“shell ultramicroporous@microporous carbon nanospheres as advanced supercapacitor electrodes. Journal of Materials Chemistry A, 2015, 3, 11517-11526.	5.2	163
9	Encapsulation of NiO nanoparticles in mesoporous carbon nanospheres for advanced energy storage. Chemical Engineering Journal, 2017, 308, 240-247.	6.6	163
10	Mesoporous size controllable carbon microspheres and their electrochemical performances for supercapacitor electrodes. Journal of Materials Chemistry A, 2014, 2, 8407-8415.	5.2	161
11	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
12	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
13	Nitrogen-containing carbon microspheres for supercapacitor electrodes. Electrochimica Acta, 2015, 158, 166-174.	2.6	145
14	Poly(ionic liquid)-derived, N, S-codoped ultramicroporous carbon nanoparticles for supercapacitors. Chemical Engineering Journal, 2017, 317, 651-659.	6.6	140
15	Coreâ€“shell reduced graphene oxide/MnO @carbon hollow nanospheres for high performance supercapacitor electrodes. Chemical Engineering Journal, 2017, 313, 518-526.	6.6	137
16	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
17	Nitrogen-containing ultramicroporous carbon nanospheres for high performance supercapacitor electrodes. Electrochimica Acta, 2016, 205, 132-141.	2.6	130
18	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

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19	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
20	<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
21	Ionic Liquids for Supercapacitive Energy Storage: A Mini-Review. Energy & Fuels, 2021, 35, 8443-8455.	2.5	115
22	Carbon hydrangeas with typical ionic liquid matched pores for advanced supercapacitors. Carbon, 2020, 168, 499-507.	5.4	110
23	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
24	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
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	Synthesis of micro- and mesoporous carbon spheres for supercapacitor electrode. Journal of Solid State Electrochemistry, 2013, 17, 2293-2301.	1.2	98
27	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
28	Core-shell hierarchical porous carbon spheres with N/O doping for efficient energy storage. Electrochimica Acta, 2020, 358, 136899.	2.6	90
29	A robust strategy of solvent choice to synthesize optimal nanostructured carbon for efficient energy storage. Carbon, 2021, 180, 135-145.	5.4	88
30	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
31	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
32	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
33	Highly active N, O-doped hierarchical porous carbons for high-energy supercapacitors. Chinese Chemical Letters, 2020, 31, 1226-1230.	4.8	78
34	Hydrangea-like N/O codoped porous carbons for high-energy supercapacitors. Chemical Engineering Journal, 2020, 388, 124208.	6.6	75
35	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
36	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

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37	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
38	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
39	Ultramicroporous carbon nanoparticles derived from metalâ€“organic framework nanoparticles for high-performance supercapacitors. Materials Chemistry and Physics, 2018, 211, 234-241.	2.0	68
40	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
41	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
42	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
43	Thio-groups decorated covalent triazine frameworks for selective mercury removal. Journal of Hazardous Materials, 2021, 403, 123702.	6.5	60
44	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
45	From interpenetrating polymer networks to hierarchical porous carbons for advanced supercapacitor electrodes. Chinese Chemical Letters, 2019, 30, 1445-1449.	4.8	58
46	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
47	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
48	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
49	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
50	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
51	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
52	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
53	High surface area ordered mesoporous carbon for high-level removal of rhodamine B. Journal of Materials Science, 2013, 48, 8003-8013.	1.7	31
54	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

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55	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
56	Synthesis of Alumina Aerogels by Ambient Drying Method and Control of Their Structures. Journal of Porous Materials, 2005, 12, 317-321.	1.3	26
57	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
58	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
59	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
60	Facile synthesis of mesoporous cobalt oxide rugby balls for electrochemical energy storage. New Journal of Chemistry, 2015, 39, 68-71.	1.4	12
61	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
62	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
63	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
64	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