

Li-Hua Chen

List of Publications by Year in descending order

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66
papers

5,793
citations

125106

35
h-index

120465

65
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70
all docs

70
docs citations

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times ranked

9029
citing authors

#	ARTICLE	IF	CITATIONS
1	Phase Conversion Accelerating "Zn" Escape Effect in ZnSe/CFs Heterostructure for High Performance Sodium-Ion Half/Full Batteries. <i>Small</i> , 2022, 18, 2105169.	5.2	7
2	A nucleation-tuned mechanism to prepare centre-crossed zeolite lamellas by the rotating/static switch crystallization strategy. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 889-901.	3.0	3
3	The chain-mail Co@C electrocatalyst accelerating one-step solid-phase redox for advanced Li-Se batteries. <i>Journal of Materials Chemistry A</i> , 2022, 10, 8059-8067.	5.2	11
4	Unprecedented strong and reversible atomic orbital hybridization enables a highly stable Li-S battery. <i>National Science Review</i> , 2022, 9, .	4.6	15
5	Construction of Ti-containing zeolite with highly enhanced catalytic activity by active species surface implanting strategy. <i>Catalysis Today</i> , 2022, 405-406, 285-298.	2.2	3
6	Vacancy defect engineering in semiconductors for solar light-driven environmental remediation and sustainable energy production. , 2022, 1, 213-255.		46
7	Dual catalysis-adsorption function modified separator towards high-performance Li-Se battery. <i>Applied Surface Science</i> , 2022, 599, 153932.	3.1	7
8	Boosting Highly Active Exposed Mo Atoms by Fine-Tuning S-Vacancies of MoS ₂ -Based Materials for Efficient Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30746-30759.	4.0	14
9	Emerging semiconductors and metal-organic-compounds-related photocatalysts for sustainable hydrogen peroxide production. <i>Matter</i> , 2022, 5, 2119-2167.	5.0	37
10	Melamine-based polymer networks enabled N, O, S Co-doped defect-rich hierarchically porous carbon nanobelts for stable and long-cycle Li-ion and Li-Se batteries. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 60-69.	5.0	34
11	The effect of hierarchical single-crystal ZSM-5 zeolites with different Si/Al ratios on its pore structure and catalytic performance. <i>Frontiers of Chemical Science and Engineering</i> , 2021, 15, 269-278.	2.3	9
12	Growing ordered CuO nanorods on 2D Cu/g-C ₃ N ₄ nanosheets as stable freestanding anode for outstanding lithium storage. <i>Chemical Engineering Journal</i> , 2021, 407, 126941.	6.6	33
13	Interwoven scaffolded porous titanium oxide nanocubes/carbon nanotubes framework for high-performance sodium-ion battery. <i>Journal of Energy Chemistry</i> , 2021, 59, 38-46.	7.1	25
14	Synergistic zinc doping and defect engineering toward MoS ₂ nanosheet arrays for highly efficient electrocatalytic hydrogen evolution. <i>Dalton Transactions</i> , 2021, 50, 5770-5775.	1.6	11
15	Embedding tin disulfide nanoparticles in two-dimensional porous carbon nanosheet interlayers for fast-charging lithium-sulfur batteries. <i>Science China Materials</i> , 2021, 64, 2697-2709.	3.5	16
16	Stable 2D Alternating Cation Perovskite Solar Cells with Power Conversion Efficiency >19% via Solvent Engineering. <i>Solar Rrl</i> , 2021, 5, 2100286.	3.1	45
17	Optimizing inner voids in yolk-shell TiO ₂ nanostructure for high-performance and ultralong-life lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 417, 129241.	6.6	42
18	PtO nanodots promoting Ti ₃ C ₂ MXene in-situ converted Ti ₃ C ₂ /TiO ₂ composites for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021, 420, 129695.	6.6	88

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19	Tris(trimethylsilyl) borate as electrolyte additive alleviating cathode electrolyte interphase for enhanced lithium-selenium battery. <i>Electrochimica Acta</i> , 2021, 393, 139042.	2.6	12
20	Light-assisted preparation of heterostructured g-C ₃ N ₄ /ZnO nanorods arrays for enhanced photocatalytic hydrogen performance. <i>Catalysis Today</i> , 2020, 355, 932-936.	2.2	33
21	Hollow nitrogen-doped carbon/sulfur@MnO ₂ nanocomposite with structural and chemical dual-encapsulation for lithium-sulfur battery. <i>Chemical Engineering Journal</i> , 2020, 381, 122746.	6.6	66
22	A flexible, hierarchically porous PANI/MnO ₂ network with fast channels and an extraordinary chemical process for stable fast-charging lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2741-2751.	5.2	50
23	Hierarchy in materials for maximized efficiency. <i>National Science Review</i> , 2020, 7, 1626-1630.	4.6	47
24	Micron-Sized Zeolite Beta Single Crystals Featuring Intracrystal Interconnected Ordered Macro-Meso-Microporosity Displaying Superior Catalytic Performance. <i>Angewandte Chemie</i> , 2020, 132, 19750-19759.	1.6	13
25	Hierarchical Zeolite Single-Crystal Reactor for Excellent Catalytic Efficiency. <i>Matter</i> , 2020, 3, 1226-1245.	5.0	66
26	Crystalline Porous Organic Salts: From Micropore to Hierarchical Pores. <i>Advanced Materials</i> , 2020, 32, e2003270.	11.1	52
27	Hierarchically Structured Zeolites: From Design to Application. <i>Chemical Reviews</i> , 2020, 120, 11194-11294.	23.0	328
28	Enhanced stability of highly-dispersed copper catalyst supported by hierarchically porous carbon for long term selective hydrogenation. <i>Chinese Journal of Catalysis</i> , 2020, 41, 1081-1090.	6.9	18
29	Micron-Sized Zeolite Beta Single Crystals Featuring Intracrystal Interconnected Ordered Macro-Meso-Microporosity Displaying Superior Catalytic Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19582-19591.	7.2	61
30	cAMP sensitive nanochannels driven by conformational transition of a tripeptide-based smart polymer. <i>Chemical Communications</i> , 2020, 56, 3425-3428.	2.2	4
31	Bronze TiO ₂ as a cathode host for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2020, 48, 259-266.	7.1	61
32	In-Situ Growing Mesoporous CuO/O-Doped g-C ₃ N ₄ Nanospheres for Highly Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32957-32968.	4.0	78
33	Efficient etching of oxygen-incorporated molybdenum disulfide nanosheet arrays for excellent electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019, 491, 245-255.	3.1	22
34	Molybdenum disulfide quantum dots directing zinc indium sulfide heterostructures for enhanced visible light hydrogen production. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 111-118.	5.0	35
35	Acid-responsive H ₂ -releasing Fe nanoparticles for safe and effective cancer therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2759-2765.	2.9	45
36	MOF-derived nitrogen-doped core-shell hierarchical porous carbon confining selenium for advanced lithium-selenium batteries. <i>Nanoscale</i> , 2019, 11, 6970-6981.	2.8	83

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37	Template-free synthesis of hierarchically macro-mesoporous Mn-TiO ₂ catalysts for selective reduction of NO with NH ₃ . <i>Frontiers of Chemical Science and Engineering</i> , 2018, 12, 43-49.	2.3	7
38	Oxygen self-doped g-C ₃ N ₄ with tunable electronic band structure for unprecedentedly enhanced photocatalytic performance. <i>Nanoscale</i> , 2018, 10, 4515-4522.	2.8	247
39	Selenium clusters in Zn-glutamate MOF derived nitrogen-doped hierarchically radial-structured microporous carbon for advanced rechargeable Na-Se batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22790-22797.	5.2	62
40	Fast detection and structural identification of carbocations on zeolites by dynamic nuclear polarization enhanced solid-state NMR. <i>Chemical Science</i> , 2018, 9, 8184-8193.	3.7	38
41	A hierarchical zeolitic Murray material with a mass transfer advantage promotes catalytic efficiency improvement. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2829-2835.	3.0	18
42	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. <i>RSC Advances</i> , 2018, 8, 28625-28631.	1.7	32
43	Insight into the positive effect of porous hierarchy in S/C cathodes on the electrochemical performance of Li-S batteries. <i>Nanoscale</i> , 2018, 10, 11861-11868.	2.8	32
44	3D Ferroconcrete-Like Aminated Carbon Nanotubes Network Anchoring Sulfur for Advanced Lithium-Sulfur Battery. <i>Advanced Energy Materials</i> , 2018, 8, 1801066.	10.2	115
45	Hierarchy Design in Metal Oxides as Anodes for Advanced Lithium-Ion Batteries. <i>Small Methods</i> , 2018, 2, 1800171.	4.6	69
46	Hierarchically porous materials: synthesis strategies and structure design. <i>Chemical Society Reviews</i> , 2017, 46, 481-558.	18.7	1,030
47	Physical and chemical dual-confinement of polysulfides within hierarchically meso-microporous nitrogen-doped carbon nanocages for advanced Li-S batteries. <i>RSC Advances</i> , 2017, 7, 42627-42633.	1.7	11
48	Superior Pseudocapacitive Lithium-Ion Storage in Porous Vanadium Oxides@C Heterostructure Composite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43665-43673.	4.0	83
49	Manganese dioxide nanosheet functionalized sulfur@PEDOT core-shell nanospheres for advanced lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9403-9412.	5.2	112
50	Hierarchically porous materials: Synthesis strategies and emerging applications. <i>Frontiers of Chemical Science and Engineering</i> , 2016, 10, 301-347.	2.3	73
51	Applications of hierarchically structured porous materials from energy storage and conversion, catalysis, photocatalysis, adsorption, separation, and sensing to biomedicine. <i>Chemical Society Reviews</i> , 2016, 45, 3479-3563.	18.7	1,134
52	Phases Hybridizing and Hierarchical Structuring of Mesoporous TiO ₂ Nanowire Bundles for High-Rate and High-Capacity Lithium Batteries. <i>Advanced Science</i> , 2015, 2, 1500070.	5.6	39
53	Hierarchical nanosheet-constructed yolk-shell TiO ₂ porous microspheres for lithium batteries with high capacity, superior rate and long cycle capability. <i>Nanoscale</i> , 2015, 7, 12979-12989.	2.8	51
54	Hierarchical mesoporous urchin-like Mn ₃ O ₄ /carbon microspheres with highly enhanced lithium battery performance by in-situ carbonization of new lamellar manganese alkoxide (Mn-DEC). <i>Nano Energy</i> , 2015, 12, 833-844.	8.2	96

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55	Design of new anode materials based on hierarchical, three dimensional ordered macro-mesoporous TiO ₂ for high performance lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 9699.	5.2	124
56	Annealed vanadium oxide nanowires and nanotubes as high performance cathode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14099.	5.2	52
57	A comparative study of hierarchically micro-meso-macroporous solid-acid catalysts constructed by zeolites nanocrystals synthesized via a quasi-solid-state crystallization process. <i>Microporous and Mesoporous Materials</i> , 2013, 182, 122-135.	2.2	18
58	Hierarchically structured zeolites: synthesis, mass transport properties and applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 17381.	6.7	372
59	Self-generated hierarchically porous titania with high surface area: Photocatalytic activity enhancement by macrochannel structure. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 128-138.	5.0	37
60	Multimodal Zr-Silicalite-1 zeolite nanocrystal aggregates with interconnected hierarchically micro-meso-macroporous architecture and enhanced mass transport property. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 368-374.	5.0	39
61	Tuning the structure of a hierarchically porous ZrO ₂ for dye molecule depollution. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 110-121.	2.2	10
62	Direct Observation of Macrostructure Formation of Hierarchically Structured Meso~Macroporous Aluminosilicates with 3D Interconnectivity by Optical Microscope. <i>Langmuir</i> , 2011, 27, 3030-3043.	1.6	29
63	Multimodal Zeolite~Based Catalysts with a Hierarchical, Three~level Pore Structure. <i>ChemSusChem</i> , 2011, 4, 1452-1456.	3.6	38
64	Highly Stable and Reusable Multimodal Zeolite TS~1 Based Catalysts with Hierarchically Interconnected Three~level Micro~Meso~Macroporous Structure. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 11156-11161.	7.2	189
65	Well~Organized Zeolite Nanocrystal Aggregates with Interconnected Hierarchically Micro~Meso~Macropore Systems Showing Enhanced Catalytic Performance. <i>Chemistry - A European Journal</i> , 2011, 17, 14987-14995.	1.7	78
66	Synergistic Regulation of S-Vacancy of MoS ₂ -Based Materials for Highly Efficient Electrocatalytic Hydrogen Evolution. <i>Frontiers in Chemistry</i> , 0, 10, .	1.8	5