

# Chong Liu

## List of Publications by Citations

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98  
papers

14,305  
citations

54  
h-index

107  
g-index

107  
ext. papers

16,466  
ext. citations

15.5  
avg, IF

6.69  
L-index

#	Paper	IF	Citations
98	Balancing surface adsorption and diffusion of lithium-polysulfides on nonconductive oxides for lithium-sulfur battery design. <i>Nature Communications</i> , <b>2016</b> , 7, 11203	17.4	866
97	Multifunctional mesoporous composite microspheres with well-designed nanostructure: a highly integrated catalyst system. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 8466-73	16.4	827
96	25th anniversary article: semiconductor nanowires--synthesis, characterization, and applications. <i>Advanced Materials</i> , <b>2014</b> , 26, 2137-84	24	649
95	Composite lithium metal anode by melt infusion of lithium into a 3D conducting scaffold with lithiophilic coating. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2862-7	11.5	643
94	Simultaneously efficient light absorption and charge separation in WO <sub>3</sub> /BiVO <sub>4</sub> core/shell nanowire photoanode for photoelectrochemical water oxidation. <i>Nano Letters</i> , <b>2014</b> , 14, 1099-105	11.5	580
93	Water splitting-biosynthetic system with CO <sub>2</sub> reduction efficiencies exceeding photosynthesis. <i>Science</i> , <b>2016</b> , 352, 1210-3	33.3	569
92	Transparent air filter for high-efficiency PM <sub>2.5</sub> capture. <i>Nature Communications</i> , <b>2015</b> , 6, 6205	17.4	525
91	Rapid water disinfection using vertically aligned MoS nanofilms and visible light. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 1098-1104	28.7	514
90	Radiative human body cooling by nanoporous polyethylene textile. <i>Science</i> , <b>2016</b> , 353, 1019-1023	33.3	464
89	Electrodeposited cobalt-sulfide catalyst for electrochemical and photoelectrochemical hydrogen generation from water. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 17699-702	16.4	463
88	A fully integrated nanosystem of semiconductor nanowires for direct solar water splitting. <i>Nano Letters</i> , <b>2013</b> , 13, 2989-92	11.5	453
87	Ordered mesoporous silicas and carbons with large accessible pores templated from amphiphilic diblock copolymer poly(ethylene oxide)-b-polystyrene. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 1690-7	16.4	354
86	A high tap density secondary silicon particle anode fabricated by scalable mechanical pressing for lithium-ion batteries. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 2371-2376	35.4	339
85	Electrocatalytic Nitrogen Reduction at Low Temperature. <i>Joule</i> , <b>2018</b> , 2, 846-856	27.8	292
84	Large-scale synthesis of transition-metal-doped TiO <sub>2</sub> nanowires with controllable overpotential. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9995-8	16.4	289
83	Semiconductor Nanowires for Artificial Photosynthesis. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 415-422	9.6	277
82	Surface Fluorination of Reactive Battery Anode Materials for Enhanced Stability. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 11550-11558	16.4	270

81	Nanowire-bacteria hybrids for unassisted solar carbon dioxide fixation to value-added chemicals. <i>Nano Letters</i> , <b>2015</b> , 15, 3634-9	11.5	269
80	Synthesis of Core/Shell Colloidal Magnetic Zeolite Microspheres for the Immobilization of Trypsin. <i>Advanced Materials</i> , <b>2009</b> , 21, 1377-1382	24	259
79	Plasmon-enhanced photocatalytic activity of iron oxide on gold nanopillars. <i>ACS Nano</i> , <b>2012</b> , 6, 234-40	16.7	255
78	Roll-to-Roll Transfer of Electrospun Nanofiber Film for High-Efficiency Transparent Air Filter. <i>Nano Letters</i> , <b>2016</b> , 16, 1270-5	11.5	241
77	Atomic layer deposition of platinum catalysts on nanowire surfaces for photoelectrochemical water reduction. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 12932-5	16.4	240
76	Favoring the unfavored: Selective electrochemical nitrogen fixation using a reticular chemistry approach. <i>Science Advances</i> , <b>2018</b> , 4, eaar3208	14.3	237
75	A dual-mode textile for human body radiative heating and cooling. <i>Science Advances</i> , <b>2017</b> , 3, e1700895	14.3	222
74	A half-wave rectified alternating current electrochemical method for uranium extraction from seawater. <i>Nature Energy</i> , <b>2017</b> , 2,	62.3	216
73	3D Porous Sponge-Inspired Electrode for Stretchable Lithium-Ion Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 3578-83	24	199
72	Facile Synthesis of Hierarchically Porous Carbons from Dual Colloidal Crystal/Block Copolymer Template Approach. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 3271-3277	9.6	193
71	Hybrid bioinorganic approach to solar-to-chemical conversion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 11461-6	11.5	174
70	Warming up human body by nanoporous metallized polyethylene textile. <i>Nature Communications</i> , <b>2017</b> , 8, 496	17.4	162
69	In Situ Electrochemically Derived Nanoporous Oxides from Transition Metal Dichalcogenides for Active Oxygen Evolution Catalysts. <i>Nano Letters</i> , <b>2016</b> , 16, 7588-7596	11.5	152
68	Electrochemical tuning of olivine-type lithium transition-metal phosphates as efficient water oxidation catalysts. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 1719-1724	35.4	142
67	Surfactant-free, large-scale, solution-liquid-solid growth of gallium phosphide nanowires and their use for visible-light-driven hydrogen production from water reduction. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 19306-9	16.4	141
66	Three-dimensional spirals of atomic layered MoS <sub>2</sub> . <i>Nano Letters</i> , <b>2014</b> , 14, 6418-23	11.5	136
65	Conducting nanosponge electroporation for affordable and high-efficiency disinfection of bacteria and viruses in water. <i>Nano Letters</i> , <b>2013</b> , 13, 4288-93	11.5	130
64	Excitation-wavelength-dependent small polaron trapping of photoexcited carriers in $\alpha$ -FeO. <i>Nature Materials</i> , <b>2017</b> , 16, 819-825	27	125

63	Ambient nitrogen reduction cycle using a hybrid inorganic-biological system. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 6450-6455	11.5	121
62	Ultra-Large-Pore Mesoporous Carbons Templated from Poly(ethylene oxide)-b-Polystyrene Diblock Copolymer by Adding Polystyrene Homopolymer as a Pore Expander. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 7281-7286	9.6	108
61	Mesoporous Monocrystalline TiO <sub>2</sub> and Its Solid-State Electrochemical Properties. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 2540-2546	9.6	107
60	Directed Assembly of Nanoparticle Catalysts on Nanowire Photoelectrodes for Photoelectrochemical CO <sub>2</sub> Reduction. <i>Nano Letters</i> , <b>2016</b> , 16, 5675-80	11.5	105
59	Design of template-stabilized active and earth-abundant oxygen evolution catalysts in acid. <i>Chemical Science</i> , <b>2017</b> , 8, 4779-4794	9.4	103
58	Direct/Alternating Current Electrochemical Method for Removing and Recovering Heavy Metal from Water Using Graphene Oxide Electrode. <i>ACS Nano</i> , <b>2019</b> , 13, 6431-6437	16.7	103
57	Zn-doped p-type gallium phosphide nanowire photocathodes from a surfactant-free solution synthesis. <i>Nano Letters</i> , <b>2012</b> , 12, 5407-11	11.5	96
56	Design of Amphiphilic ABC Triblock Copolymer for Templating Synthesis of Large-Pore Ordered Mesoporous Carbons with Tunable Pore Wall Thickness. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3996-4005	9.6	93
55	Nanowire Photoelectrochemistry. <i>Chemical Reviews</i> , <b>2019</b> , 119, 9221-9259	68.1	92
54	Static electricity powered copper oxide nanowire microbicidal electroporation for water disinfection. <i>Nano Letters</i> , <b>2014</b> , 14, 5603-8	11.5	91
53	Femtosecond M <sub>2,3</sub> -Edge Spectroscopy of Transition-Metal Oxides: Photoinduced Oxidation State Change in Fe <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3667-3671	6.4	89
52	Thick wall mesoporous carbons with a large pore structure templated from a weakly hydrophobic PEOBMA diblock copolymer. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 91-97		89
51	Single-nanowire photoelectrochemistry. <i>Nature Nanotechnology</i> , <b>2016</b> , 11, 609-12	28.7	88
50	Remediation of heavy metal contaminated soil by asymmetrical alternating current electrochemistry. <i>Nature Communications</i> , <b>2019</b> , 10, 2440	17.4	85
49	Physical Biology of the Materials-Microorganism Interface. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1978-1985	16.4	79
48	MoS <sub>2</sub> -wrapped silicon nanowires for photoelectrochemical water reduction. <i>Nano Research</i> , <b>2015</b> , 8, 281-287	10	70
47	A Prussian blue route to nitrogen-doped graphene aerogels as efficient electrocatalysts for oxygen reduction with enhanced active site accessibility. <i>Nano Research</i> , <b>2017</b> , 10, 1213-1222	10	66
46	Close-Packed Nanowire-Bacteria Hybrids for Efficient Solar-Driven CO <sub>2</sub> Fixation. <i>Joule</i> , <b>2020</b> , 4, 800-811	27.8	60

45	Use of low cost and easily regenerated Prussian Blue cathodes for efficient electrical energy recovery in a microbial battery. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 546-551	35.4	58
44	Engineering the surface of LiCoO <sub>2</sub> electrodes using atomic layer deposition for stable high-voltage lithium ion batteries. <i>Nano Research</i> , <b>2017</b> , 10, 3754-3764	10	51
43	Light-induced charge transport within a single asymmetric nanowire. <i>Nano Letters</i> , <b>2011</b> , 11, 3755-8	11.5	51
42	Nitrogen-Defective Polymeric Carbon Nitride Nanolayer Enabled Efficient Electrocatalytic Nitrogen Reduction with High Faradaic Efficiency. <i>Nano Letters</i> , <b>2020</b> , 20, 2879-2885	11.5	48
41	Amidoxime-Functionalized Macroporous Carbon Self-Refreshed Electrode Materials for Rapid and High-Capacity Removal of Heavy Metal from Water. <i>ACS Central Science</i> , <b>2019</b> , 5, 719-726	16.8	47
40	Perfluorocarbon nanoemulsion promotes the delivery of reducing equivalents for electricity-driven microbial CO <sub>2</sub> reduction. <i>Nature Catalysis</i> , <b>2019</b> , 2, 407-414	36.5	44
39	Core-Shell Nanofibrous Materials with High Particulate Matter Removal Efficiencies and Thermally Triggered Flame Retardant Properties. <i>ACS Central Science</i> , <b>2018</b> , 4, 894-898	16.8	44
38	Salt-induced self-assembly of bacteria on nanowire arrays. <i>Nano Letters</i> , <b>2014</b> , 14, 5471-6	11.5	42
37	In Situ Investigation on the Nanoscale Capture and Evolution of Aerosols on Nanofibers. <i>Nano Letters</i> , <b>2018</b> , 18, 1130-1138	11.5	41
36	Silver nanoparticles boost charge-extraction efficiency in microbial fuel cells. <i>Science</i> , <b>2021</b> , 373, 1336-1340	39	38
35	Alumina-coated Ag nanocrystal monolayers as surface-enhanced Raman spectroscopy platforms for the direct spectroscopic detection of water splitting reaction intermediates. <i>Nano Research</i> , <b>2014</b> , 7, 132-143	10	33
34	Morphology and property investigation of primary particulate matter particles from different sources. <i>Nano Research</i> , <b>2018</b> , 11, 3182-3192	10	33
33	A simple approach to the synthesis of hollow microspheres with magnetite/silica hybrid walls. <i>Journal of Colloid and Interface Science</i> , <b>2009</b> , 333, 329-34	9.3	28
32	Graphene oxide in carbon nitride: from easily processed precursors to a composite material with enhanced photoelectrochemical activity and long-term stability. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 11718-11723	13	25
31	Ambient methane functionalization initiated by electrochemical oxidation of a vanadium (V)-oxo dimer. <i>Nature Communications</i> , <b>2020</b> , 11, 3686	17.4	20
30	Solar-powered CO <sub>2</sub> reduction by a hybrid biological   inorganic system. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 358, 411-415	4.7	17
29	A novel approach to the construction of 3-D ordered macrostructures with polyhedral particles. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 408-415		17
28	Modeling of Electrocatalytic Dinitrogen Reduction on Microstructured Electrodes. <i>Small Methods</i> , <b>2019</b> , 3, 1800332	12.8	16

27	Solution Catalytic Cycle of Incompatible Steps for Ambient Air Oxidation of Methane to Methanol. <i>ACS Central Science</i> , <b>2019</b> , 5, 1584-1590	16.8	15
26	Homopolymer induced phase evolution in mesoporous silica from evaporation induced self-assembly process. <i>Microporous and Mesoporous Materials</i> , <b>2008</b> , 116, 633-640	5.3	14
25	Boron-Doped Graphene Catalyzes Dinitrogen Fixation with Electricity. <i>CheM</i> , <b>2018</b> , 4, 1773-1774	16.2	13
24	Machine-Learning-Enabled Exploration of Morphology Influence on Wire-Array Electrodes for Electrochemical Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4625-4630	6.4	11
23	Charge-Free Mixing Entropy Battery Enabled by Low-Cost Electrode Materials. <i>ACS Omega</i> , <b>2019</b> , 4, 11785-11790	9.9	10
22	C-Labeling the carbon-fixation pathway of a highly efficient artificial photosynthetic system. <i>Faraday Discussions</i> , <b>2017</b> , 198, 529-537	3.6	8
21	Temperature nanotracers for fractured reservoirs characterization. <i>Journal of Petroleum Science and Engineering</i> , <b>2015</b> , 127, 212-228	4.4	8
20	Nanoparticle and Microparticle Flow in Porous and Fractured Media: An Experimental Study <b>2011</b> ,		8
19	Electricity-powered artificial root nodule. <i>Nature Communications</i> , <b>2020</b> , 11, 1505	17.4	6
18	Development of an Activated Carbon-Based Electrode for the Capture and Rapid Electrolytic Reductive Debromination of Methyl Bromide from Postharvest Fumigations. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 11200-11208	10.3	6
17	Two are better than one. <i>Nature Chemistry</i> , <b>2019</b> , 11, 200-201	17.6	6
16	Controlling the Structure of MoS Membranes via Covalent Functionalization with Molecular Spacers. <i>Nano Letters</i> , <b>2020</b> , 20, 7844-7851	11.5	5
15	Cluster Size Control toward High Performance Solution Processed InGaZnO Thin Film Transistors. <i>ACS Applied Electronic Materials</i> , <b>2019</b> , 1, 2483-2488	4	5
14	Perfluorocarbon Nanoemulsions Create a Beneficial O Microenvironment in N-fixing Biological   Inorganic Hybrid. <i>Chem Catalysis</i> , <b>2021</b> , 1, 704-720		5
13	Efficacy analysis of compartmentalization for ambient CH activation mediated by a Rh metalloradical in a nanowire array electrode. <i>Chemical Science</i> , <b>2020</b> , 12, 1818-1825	9.4	4
12	De Novo Approach to Encapsulating Biocatalysts into Synthetic Matrixes: From Enzymes to Microbial Electrocatalysts. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> ,	9.5	3
11	Surface Valence State Effect of MoO on Electrochemical Nitrogen Reduction.. <i>Advanced Science</i> , <b>2022</b> , e2104857	13.6	3
10	Chapter 6:Nanowires for Photovoltaics and Artificial Photosynthesis. <i>RSC Smart Materials</i> , <b>2014</b> , 277-311	10.6	2

9	ABC and ABAB Block Copolymers by Electrochemically Controlled Ring-Opening Polymerization. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 19802-19808	16.4	2
8	A generalized kinetic model for compartmentalization of organometallic catalysis.. <i>Chemical Science</i> , <b>2022</b> , 13, 1101-1110	9.4	2
7	Electrochemically mediated deionization: a review. <i>Molecular Systems Design and Engineering</i> , <b>2021</b> , 6, 25-51	4.6	2
6	Ag -Mediated Electrocatalytic Ambient CH Functionalization Inspired by HSAB Theory. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 18152-18161	16.4	1
5	Electrocatalytic Methane Functionalization with d Early Transition Metals Under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 26630-26638	16.4	0
4	AgII-Mediated Electrocatalytic Ambient CH <sub>4</sub> Functionalization Inspired by HSAB Theory. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 18300-18309	3.6	0
3	Introductory lecture: systems materials engineering approach for solar-to-chemical conversion. <i>Faraday Discussions</i> , <b>2014</b> , 176, 9-16	3.6	
2	Electrocatalytic Methane Functionalization with d0 Early Transition Metals Under Ambient Conditions. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 26834	3.6	
1	Tuning transport in graphene oxide membrane with single-site copper (II) cations.. <i>IScience</i> , <b>2022</b> , 25, 104044	6.1	