

# Quan-Bing Liu

## List of Publications by Citations

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58

papers

1,226

citations

19

h-index

33

g-index

72

ext. papers

1,761

ext. citations

8.1

avg, IF

4.91

L-index

#	Paper	IF	Citations
58	A Review of Functional Binders in Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1802107	21.8	203
57	Recent advances in understanding dendrite growth on alkali metal anodes. <i>EnergyChem</i> , <b>2019</b> , 1, 100003	36.9	97
56	Rational Design of Hierarchically Core-Shell Structured Ni S @NiMoO Nanowires for Electrochemical Energy Storage. <i>Small</i> , <b>2018</b> , 14, e1800791	11	74
55	Structurally Ordered Fe <sub>3</sub> Pt Nanoparticles on Robust Nitride Support as a High Performance Catalyst for the Oxygen Reduction Reaction. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803040	21.8	68
54	Lithium-Anode Protection in Lithium-Sulfur Batteries. <i>Trends in Chemistry</i> , <b>2019</b> , 1, 693-704	14.8	65
53	A Simple and Scalable Route to Synthesize Co Cu Co O @Co Cu Co O Yolk-Shell Microspheres, A High-Performance Catalyst to Hydrolyze Ammonia Borane for Hydrogen Production. <i>Small</i> , <b>2019</b> , 15, e1805460	11	42
52	Engineering the electronic and strained interface for high activity of PdMcore@Ptmonolayer electrocatalysts for oxygen reduction reaction. <i>Science Bulletin</i> , <b>2020</b> , 65, 1396-1404	10.6	42
51	Improved interfacial electronic contacts powering high sulfur utilization in all-solid-state lithium-sulfur batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 436-442	19.4	42
50	CuCo <sub>2</sub> O <sub>4</sub> nanoplate film as a low-cost, highly active and durable catalyst towards the hydrolytic dehydrogenation of ammonia borane for hydrogen production. <i>Journal of Power Sources</i> , <b>2017</b> , 355, 191-198	8.9	40
49	N-Doped 3D Porous Ni/C Bifunctional Electrocatalysts for Alkaline Water Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 3974-3981	8.3	38
48	High-performance LiFePO <sub>4</sub> /C materials: Effect of carbon source on microstructure and performance. <i>Journal of Power Sources</i> , <b>2012</b> , 211, 52-58	8.9	32
47	High sensitivity of TiO <sub>2</sub> nanorod array electrode for photoelectrochemical glucose sensor and its photo fuel cell application. <i>Electrochemistry Communications</i> , <b>2018</b> , 94, 18-22	5.1	31
46	Synthesis of nitrogen-doped MnO/carbon network as an advanced catalyst for direct hydrazine fuel cells. <i>Journal of Power Sources</i> , <b>2019</b> , 413, 209-215	8.9	30
45	Synthesis of nitrogen-doped ordered mesoporous carbon electrocatalyst: Nanoconfinement effect in SBA-15 template. <i>International Journal of Hydrogen Energy</i> , <b>2016</b> , 41, 18027-18032	6.7	28
44	Manganese dioxide core-shell nanostructure to achieve excellent cycling stability for asymmetric supercapacitor applications. <i>RSC Advances</i> , <b>2017</b> , 7, 33635-33641	3.7	28
43	A rational synthesis of single-atom iron-nitrogen electrocatalysts for highly efficient oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 16271-16282	13	27
42	Slurry-Coated Sulfur/Sulfide Cathode with Li Metal Anode for All-Solid-State Lithium-Sulfur Pouch Cells. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 596-603	5.6	26

41	Interfacial redox behaviors of sulfide electrolytes in fast-charging all-solid-state lithium metal batteries. <i>Energy Storage Materials</i> , <b>2020</b> , 31, 267-273	19.4	24
40	Nitrogen-doped ordered mesoporous carbon: Effect of carbon precursor on oxygen reduction reactions. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1562-1567	11.3	24
39	Enhanced Cycleability of Amorphous MnO <sub>2</sub> by Covering on MnO <sub>2</sub> Needles in an Electrochemical Capacitor. <i>Materials</i> , <b>2017</b> , 10,	3.5	19
38	Electrochemical Behavior of Vanadium Redox Couples on Carbon Electrode. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H937-H942	3.9	17
37	MnCo <sub>2</sub> O <sub>4</sub> film composed of nanoplates: synthesis, characterization and its superior catalytic performance in the hydrolytic dehydrogenation of ammonia borane. <i>Catalysis Science and Technology</i> , <b>2017</b> , 7, 3573-3579	5.5	17
36	Materials Engineering in Perovskite for Optimized Oxygen Evolution Electrocatalysis in Alkaline Condition. <i>Small</i> , <b>2021</b> , 17, e2006638	11	16
35	Enhancement of capacity at high charge/discharge rate and cyclic stability of LiFePO <sub>4</sub> /C by nickel doping. <i>Ionics</i> , <b>2013</b> , 19, 445-450	2.7	15
34	Mn Nanoparticles Encapsulated within Mesoporous Helical N-Doped Carbon Nanotubes as Highly Active Air Cathode for Zinc-Air Batteries. <i>Advanced Sustainable Systems</i> , <b>2019</b> , 3, 1900085	5.9	13
33	Scalable Construction of Hollow Multishell Co <sub>3</sub> O <sub>4</sub> with Mitigated Interface Reconstruction for Efficient Lithium Storage. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000667	4.6	12
32	Toward Practical All-solid-state Batteries with Sulfide Electrolyte: A Review. <i>Chemical Research in Chinese Universities</i> , <b>2020</b> , 36, 377-385	2.2	11
31	A dopamine-based high redox potential catholyte for aqueous organic redox flow battery. <i>Journal of Power Sources</i> , <b>2020</b> , 460, 228124	8.9	11
30	An ultrathin 2D semi-ordered mesoporous silica film: co-operative assembly and application. <i>RSC Advances</i> , <b>2016</b> , 6, 75058-75062	3.7	11
29	Synergistic effects of porphyrin-ring catalytic center and metal catalytic site from crosslinked porphyrin-based porous polyimides cathode host for lithium polysulfides conversion in lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , <b>2021</b> , 430, 132692	14.7	11
28	Sulfuryl chloride as a functional additive towards dendrite-free and long-life Li metal anodes. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 25003-25009	13	10
27	Sea-Urchin-like Hollow CuMoO <sub>4</sub> /CoMoO <sub>4</sub> Hybrid Microspheres, a Noble-Metal-like Robust Catalyst for the Fast Hydrogen Production from Ammonia Borane. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 633-642	6.1	10
26	Stress Regulation on Atomic Bonding and Ionic Diffusivity: Mechanochemical Effects in Sulfide Solid Electrolytes. <i>Energy &amp; Fuels</i> , <b>2021</b> , 35, 10210-10218	4.1	9
25	Robust In <sub>2</sub> Co <sub>3</sub> N <sub>2</sub> Mn <sub>x</sub> Nitride-Supported Pt Nanoparticles as High-Performance Bifunctional Electrocatalysts for Zn-Air Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 5293-5300	6.1	8
24	Rational Design of an Ionic Liquid-Based Electrolyte with High Ionic Conductivity Towards Safe Lithium/Lithium-Ion Batteries. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 2810-2814	4.5	7

23	Tuning the Catalytic Activity of Ir@Pt Nanoparticles Through Controlling Ir Core Size on Cathode Performance for PEM Fuel Cell Application. <i>Frontiers in Chemistry</i> , <b>2018</b> , 6, 299	5	7
22	Unusual Formation of Co <sub>0.61</sub> Se <sub>0.25</sub> Anion Solid Solution with Sulfur Defects to Promote Electrocatalytic Water Reduction. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2976-2982	6.1	6
21	Balanced capture and catalytic ability toward polysulfides by designing MoO-CoMoO heterostructures for lithium-sulfur batteries. <i>Nanoscale</i> , <b>2021</b> , 13, 15689-15698	7.7	6
20	Porous grape-like spherical silica with hydrogen storage capability, synthesized using neutral dual surfactants as templates. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3810-3815	6.7	5
19	LiFePO <sub>4</sub> /C Microspheres with Nano-micro Structure, Prepared by Spray Drying Method Assisted with PVA as Template. <i>Current Nanoscience</i> , <b>2012</b> , 8, 208-214	1.4	5
18	Direct Utilization of Photoinduced Charge Carriers to Promote Electrochemical Energy Storage. <i>Small</i> , <b>2021</b> , 17, e2008047	11	5
17	Nonstoichiometric CuNiCoO Nanowires as an Anode Material for High Performance Lithium Storage. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	4
16	Fe <sub>3</sub> C@NCNT as a promoter for the sulfur cathode toward high-performance lithium-sulfur batteries. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 899, 163245	5.7	4
15	Co N-Decorated 3D Wood-Derived Carbon Host Enables Enhanced Cathodic Electrocatalysis and Homogeneous Lithium Deposition for Lithium-Sulfur Full Cells. <i>Small</i> , <b>2021</b> , e2105664	11	3
14	Simplifying the creation of iron compound inserted, nitrogen-doped carbon nanotubes and its catalytic application. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 857, 157543	5.7	3
13	Cu <sub>0.4</sub> Co <sub>0.6</sub> MoO <sub>4</sub> Nanorods Supported on Graphitic Carbon Nitride as a Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia Borane. <i>Catalysts</i> , <b>2019</b> , 9, 714	4	2
12	Fabrication and Porous Architecture of Crosslinked Polyimides for Lithium Sulfur Batteries and Their Electrochemical Properties. <i>Industrial &amp; Engineering Chemistry Research</i> ,	3.9	2
11	Liquid Phase Therapy with Localized High-Concentration Electrolytes for Solid-State Li Metal Pouch Cells. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , <b>2020</b> , 2005003-0	3.8	2
10	Inhibition of lithium dendrites and dead lithium by an ionic liquid additive toward safe and stable lithium metal anodes. <i>Chinese Chemical Letters</i> , <b>2021</b> ,	8.1	1
9	Self-Sacrifice Template Fabrication of Graphene-like Nitrogen-Doped Porous Carbon Nanosheets for Applications in Lithium-Ion Batteries and Oxygen Reduction Reaction. <i>Energy Technology</i> , <b>2021</b> , 9, 2100666	3.5	1
8	CuO-Co <sub>3</sub> O <sub>4</sub> Composite Nanoplatelets for Hydrolyzing Ammonia Borane. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 7640-7649	5.6	1
7	Directional assist (010) plane growth in LiMnPO <sub>4</sub> prepared by solvothermal method with polyols to enhance electrochemical performance. <i>Chinese Journal of Chemical Engineering</i> , <b>2021</b> , 36, 181-189	3.2	1
6	Tailoring the density of nanoflakes to enhance the hybrid battery performance of the NiS sheet array electrode. <i>Materials Research Bulletin</i> , <b>2021</b> , 140, 111293	5.1	0

5	Ni <sub>0.25</sub> Co <sub>0.75</sub> O nanowire array supported on Cu@CuO foam, an inexpensive and durable catalyst for hydrogen generation from ammonia borane. <i>Catalysis Communications</i> , <b>2021</b> , 159, 106343	3.2	○
4	Carbon-Based Conductive Frameworks and Metal Catalytic Sites Derived from Cross-Linked Porous Porphyrin-Based Polyimides for Enhanced Conversion of Lithium Polysulfides in LiS Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 14497-14507	6.1	○
3	Boosted Catalytic Activity toward the Hydrolysis of Ammonia Borane by Mixing Co- and Cu-Based Catalysts. <i>Catalysts</i> , <b>2022</b> , 12, 426	4	○
2	Achieving Dendrite-free Lithium Plating/Stripping from Mixed Ion/Electron Conducting Scaffold Li <sub>2</sub> S@Ni NWs-NF for Stable Lithium Metal Anodes. <i>Chemical Engineering Journal</i> , <b>2022</b> , 137401	14.7	○
1	Electrochemical Energy Storage: Direct Utilization of Photoinduced Charge Carriers to Promote Electrochemical Energy Storage (Small 21/2021). <i>Small</i> , <b>2021</b> , 17, 2170103	11	