

# Jiehua Liu

## List of Publications by Year in descending order

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63  
papers

2,765  
citations

304368

22  
h-index

174990

52  
g-index

67  
all docs

67  
docs citations

67  
times ranked

4698  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Nanoarchitectures for Lithium Storage. <i>Advanced Materials</i> , 2012, 24, 4097-4111.	11.1	501
2	CeO <sub>2</sub> nanoparticles/graphene nanocomposite-based high performance supercapacitor. <i>Dalton Transactions</i> , 2011, 40, 6388.	1.6	236
3	Sandwich-Like, Stacked Ultrathin Titanate Nanosheets for Ultrafast Lithium Storage. <i>Advanced Materials</i> , 2011, 23, 998-1002.	11.1	204
4	Advanced chemical strategies for lithium-sulfur batteries: A review. <i>Green Energy and Environment</i> , 2018, 3, 2-19.	4.7	164
5	Novel thiophene-bearing conjugated microporous polymer honeycomb-like porous spheres with ultrahigh iodine uptake. <i>Chemical Communications</i> , 2016, 52, 9797-9800.	2.2	159
6	Ultrahigh energy storage and ultrafast ion diffusion in borophene-based anodes for rechargeable metal ion batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2328-2338.	5.2	134
7	Biomass-derived porous carbon materials for advanced lithium sulfur batteries. <i>Journal of Energy Chemistry</i> , 2019, 34, 171-185.	7.1	120
8	Mechanism on the Improved Performance of Lithium Sulfur Batteries with MXene-Based Additives. <i>Journal of Physical Chemistry C</i> , 2017, 121, 11047-11054.	1.5	118
9	Reverse Micelles in Carbon Dioxide with Ionic-Liquid Domains. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 3313-3315.	7.2	117
10	Recent Progress in Electrolytes for Zn-Air Batteries. <i>Frontiers in Chemistry</i> , 2020, 8, 372.	1.8	83
11	Recent advances in interlayer and separator engineering for lithium-sulfur batteries. <i>Journal of Energy Chemistry</i> , 2021, 57, 41-60.	7.1	68
12	Study of ethylene glycol/TX-100/ionic liquid microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 302, 211-215.	2.3	62
13	Natural Integrated Carbon Architecture for Rechargeable Lithium-Sulfur Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 666-670.	3.2	55
14	Controllable growth of bulk cubic-phase CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> single crystal with exciting room-temperature stability. <i>CrystEngComm</i> , 2016, 18, 5257-5261.	1.3	51
15	Hydrogen storage in Ni-B nanoalloy-doped 2D graphene. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12950-12954.	3.8	47
16	Microconcave MAPbBr <sub>3</sub> Single Crystal for High-Performance Photodetector. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 786-792.	2.1	41
17	Uniform core-shell titanium phosphate nanospheres with orderly open nanopores: a highly active Brønsted acid catalyst. <i>Chemical Communications</i> , 2010, 46, 1670.	2.2	38
18	Recent advances in electrocatalysts for non-aqueous Li-O <sub>2</sub> batteries. <i>Chinese Chemical Letters</i> , 2017, 28, 709-718.	4.8	36

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19	Two-Dimensional Wavelike Spinel Lithium Titanate for Fast Lithium Storage. <i>Scientific Reports</i> , 2015, 5, 9782.	1.6	28
20	DNA-Mediated Synthesis of Microporous Single-Crystal-Like $\text{NaTi}_2(\text{PO}_4)_3$ Nanospheres. <i>Small</i> , 2008, 4, 1976-1979.	5.2	27
21	The strategies of advanced cathode composites for lithium-sulfur batteries. <i>Science China Technological Sciences</i> , 2017, 60, 175-185.	2.0	25
22	High-yield synthesis of ultrathin silica-based nanosheets and their superior catalytic activity in $\text{H}_2\text{O}_2$ decomposition. <i>Chemical Communications</i> , 2011, 47, 6135.	2.2	24
23	An effective Pd@Ni-B/C anode catalyst for electro-oxidation of formic acid. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 3216-3222.	3.8	23
24	Exfoliated graphitic carbon nitride self-recognizing $\text{CH}_3\text{NH}_3\text{PbI}_3$ grain boundaries by hydrogen bonding interaction for improved perovskite solar cells. <i>Solar Energy</i> , 2019, 181, 161-168.	2.9	23
25	Semitransparent $\text{CH}_3\text{NH}_3\text{PbI}_3$ Films Achieved by Solvent Engineering for Annealing and Electron Transport Layer-Free Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2018, 2, 1700222.	3.1	22
26	Fabrication of O (dye)-terminated anatase $\text{TiO}_2$ nanosheets for dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2054.	15.6	20
27	Nitrogen-doped $\text{Li}_4\text{Ti}_5\text{O}_{12}$ /carbon hybrids derived from inorganic polymer for fast lithium storage. <i>Electrochimica Acta</i> , 2017, 247, 132-138.	2.6	19
28	Low-temperature architecture of a cubic-phase $\text{CsPbBr}_3$ single crystal for ultrasensitive weak-light photodetectors. <i>Chemical Communications</i> , 2021, 57, 7798-7801.	2.2	18
29	Ultrathin Wrinkled N-Doped Carbon Nanotubes for Noble-Metal Loading and Oxygen Reduction Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 20507-20512.	4.0	17
30	Synthesis and Properties of Nitrogen-Containing Conjugated Microporous Polymers. <i>Macromolecular Materials and Engineering</i> , 2016, 301, 451-456.	1.7	17
31	Ultrafine dice-like anatase $\text{TiO}_2$ for highly efficient dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 134, 133-139.	3.0	16
32	Electrolyte Technologies for High Performance Sodium-Ion Capacitors. <i>Frontiers in Chemistry</i> , 2020, 8, 652.	1.8	16
33	High-Power Aqueous Zn- $\text{H}_2\text{O}_2$ Batteries for Multiple Applications. <i>Cell Reports Physical Science</i> , 2020, 1, 100027.	2.8	14
34	Self-template construction of 2D amorphous N-doped CoFe-mesoporous phosphate microsheets for zinc-air batteries. <i>Journal of Power Sources</i> , 2021, 498, 229859.	4.0	14
35	Large-Scale Ligand-Free Synthesis of Homogeneous Core-Shell Quantum-Dot-Modified $\text{Cs}_4\text{PbBr}_6$ Microcrystals. <i>Inorganic Chemistry</i> , 2019, 58, 10620-10624.	1.9	11
36	Hierarchical Porous N-Doped Carbon Nanosheets Obtained by Organic-Inorganic Bipolymeric Engineering for Improved Lithium-Sulfur Batteries. <i>Chemistry - A European Journal</i> , 2019, 25, 4040-4046.	1.7	11

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37	Large-scale multirole Zn(II) programmed synthesis of ultrathin hierarchically porous carbon nanosheets. <i>Science China Technological Sciences</i> , 2020, 63, 1730-1738.	2.0	11
38	Supercritical synthesis of layered elongated hexagonal titanium phosphate nanoplates. <i>RSC Advances</i> , 2015, 5, 7798-7802.	1.7	10
39	Sodium polyacrylate-derived porous carbon nanosheets for high-performance lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2019, 3, 942-947.	2.5	10
40	Nitrogen-doped carbon nanotubes intertwined with porous carbon with enhanced cathode performance in lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3926-3933.	2.5	10
41	Nanocuboid TiO <sub>2</sub> based organic-inorganic hybrids for fast RhB trapping and photodegradation. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 139-145.	3.0	9
42	MnO <sub>2</sub> -laid hierarchically porous carbon hybrid for lithium-sulfur batteries. <i>Nano Select</i> , 2021, 2, 573-580.	1.9	9
43	Biphasic Liquid-Liquid Interface Limit Architecture of High-Quality Perovskite Single-Crystal Sheets for UV Photodetection. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10052-10059.	2.1	9
44	Self-Assembled Bipolar Metals with Hollow Carbon Spheres for High-Performance Li-S Battery Cathodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 12745-12753.	2.5	9
45	Multi-Strategy Architecture of High-Efficiency Electrocatalysts for Underwater Zn-H <sub>2</sub> O Batteries with Superior Power Density of 442 ÅmW cm <sup>-2</sup> . <i>Small</i> , 2022, 18, e2106532.	5.2	9
46	Bimolecular-induced hierarchical nanoporous LiTi <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C with superior high-rate and cycling performance. <i>Chemical Communications</i> , 2017, 53, 8703-8706.	2.2	7
47	Three-dimensional graphene network supported by poly phenylene sulfide with negative permittivity at radio-frequency. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 20768-20774.	1.1	6
48	ZnS nanolayer coated hollow carbon spheres with enhanced rate and cycling performance for Li-S batteries. <i>Science China Technological Sciences</i> , 2022, 65, 272-281.	2.0	6
49	All-Inorganic Perovskite Single Crystals for Optoelectronic Detection. <i>Crystals</i> , 2022, 12, 792.	1.0	6
50	Amorphous titanate-crosslinking N-rich carbon hybrid with 3D channels for fast lithium storage. <i>RSC Advances</i> , 2015, 5, 34088-34093.	1.7	5
51	Lithium cell-assisted low-overpotential Li <sub>2</sub> O batteries by in situ discharge activation. <i>Chemical Communications</i> , 2017, 53, 10568-10571.	2.2	5
52	Nitrogen-doped carbon-modified titanium oxides supported Pd catalyst for the electrooxidation of formic acid. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2623-2628.	1.2	5
53	MXene/air-laid paper composite sensors for both tensile and torsional deformations detection. <i>Composites Communications</i> , 2021, 25, 100768.	3.3	5
54	2D Perovskite Single Crystals for Photodetectors: From Macro to Microscale. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021, 15, 2100183.	1.2	5

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55	“Nanoreactors”™ for photocatalytic H <sub>2</sub> evolution in oil/water biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14449.	1.3	4
56	Homogenous Core/Shell Nitrogen-Doped Carbon Nanotubes for the Oxygen Reduction Reaction. <i>ChemElectroChem</i> , 2015, 2, 1892-1896.	1.7	4
57	Nanolayer GO coated CNT film interlayer for lithium-sulfur batteries with enhanced cycling stability. <i>Materials Letters</i> , 2021, 305, 130753.	1.3	4
58	Amorphous C,N Codoping Cobalt Phosphates Simply Fabricated via a Mild Host-Guest Strategy as Bifunctional Electrocatalysts for Zinc-Air Batteries. <i>Energy Technology</i> , 2022, 10, 2100940.	1.8	4
59	Structure and Activity of RNase A in Sodium Dodecyl Sulphate Solutions. <i>Journal of Dispersion Science and Technology</i> , 2007, 28, 297-300.	1.3	3
60	Smart short-chain bifunctional N,N-dimethylethanolamine for high-performance lithium batteries. <i>Electrochimica Acta</i> , 2018, 282, 711-718.	2.6	3
61	In situ interfacial architecture of lithium vanadate-based cathode for printable lithium batteries. <i>IScience</i> , 2021, 24, 102666.	1.9	2
62	Palladium-ytterbium bimetallic electrocatalysts supported on carbon black, titanium suboxide, or poly(diallyldimethylammonium chloride)-functionalized titanium suboxide towards methanol oxidation in alkaline media. <i>Ionics</i> , 2018, 24, 3085-3094.	1.2	1
63	Ionic-liquid assisted architecture of amorphous nanoporous zinc-rich carbon-based microstars for lithium storage. <i>Chemical Communications</i> , 2020, 56, 12206-12209.	2.2	1