

# Jiaxuan Liao

## List of Publications by Year in descending order

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38  
papers

1,644  
citations

394421

19  
h-index

330143

37  
g-index

38  
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38  
docs citations

38  
times ranked

2095  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable, eco-friendly and ultrafast solar steam generators based on one-step melamine-derived carbon sponges toward water purification. <i>Nano Energy</i> , 2019, 58, 322-330.	16.0	246
2	Designing a highly efficient polysulfide conversion catalyst with paramontroseite for high-performance and long-life lithium-sulfur batteries. <i>Nano Energy</i> , 2019, 57, 230-240.	16.0	190
3	Efficient Trapping and Catalytic Conversion of Polysulfides by VS <sub>4</sub> Nanosites for Li-S Batteries. <i>ACS Energy Letters</i> , 2019, 4, 755-762.	17.4	185
4	Insight into MoS <sub>2</sub> -MoN Heterostructure to Accelerate Polysulfide Conversion toward High-Energy-Density Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2021, 11, 2003314.	19.5	159
5	Graphene Oxide-Template Controlled Cuboid-Shaped High-Capacity VS <sub>4</sub> Nanoparticles as Anode for Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018, 28, 1801806.	14.9	125
6	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS <sub>2</sub> anodes modified by graphene doping for lithium and sodium ion batteries. <i>Carbon</i> , 2019, 142, 697-706.	10.3	76
7	Enhanced Electrochemical and Thermal Transport Properties of Graphene/MoS <sub>2</sub> Heterostructures for Energy Storage: Insights from Multiscale Modeling. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 14614-14621.	8.0	56
8	Immobilizing Polysulfide via Multiple Active Sites in W <sub>18</sub> O <sub>49</sub> for Li-S batteries by Oxygen Vacancy Engineering. <i>Energy Storage Materials</i> , 2021, 43, 422-429.	18.0	55
9	Systematic comparison of hollow and solid Co <sub>3</sub> V <sub>2</sub> O <sub>8</sub> micro-pencils as advanced anode materials for lithium ion batteries. <i>Electrochimica Acta</i> , 2018, 264, 358-366.	5.2	49
10	The structure and dielectric properties of a novel kind of doped Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> film. <i>Materials Chemistry and Physics</i> , 2012, 135, 1030-1035.	4.0	44
11	Freestanding sandwich-like hierarchically TiS <sub>2</sub> -TiO <sub>2</sub> /Mxene bi-functional interlayer for stable Li-S batteries. <i>Carbon</i> , 2022, 188, 533-542.	10.3	42
12	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithium-Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700141.	2.3	38
13	Influence of preheating on crystallization and growing behavior of Ce and Mn doped Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> film by sol-gel method. <i>Surface and Coatings Technology</i> , 2012, 206, 4518-4524.	4.8	34
14	Novel spherical cobalt/nickel mixed-vanadates as high-capacity anodes in lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2018, 766, 442-449.	5.5	33
15	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO <sub>2</sub> Nanocomposites for High-Performance Lithium Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 5171-5182.	5.1	29
16	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS <sub>2</sub> . <i>Nanomaterials</i> , 2017, 7, 420.	4.1	28
17	Dual-heterostructures decorated interweaved carbon nanofibers sulfur host for high performance lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 418, 129388.	12.7	27
18	Synergistic regulating of dynamic trajectory and lithiophilic nucleation by Heusler alloy for dendrite-free Li deposition. <i>Energy Storage Materials</i> , 2022, 50, 505-513.	18.0	25

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19	Effect of doped concentration on dielectric properties of Mn and Y alternately doped BST films. Surface and Coatings Technology, 2014, 251, 307-312.	4.8	23
20	Graphene coated $\text{Co}_3\text{V}_2\text{O}_8$ micro-pencils for enhanced-performance in lithium ion batteries. New Journal of Chemistry, 2017, 41, 10634-10639.	2.8	18
21	Hollow carbon sphere based $\text{WS}_2$ anode for high performance lithium and sodium ion batteries. Chemical Physics Letters, 2020, 741, 137061.	2.6	17
22	Excellent Electrochemical Performance of Potassium Ion Capacitor Achieved by a High Nitrogen Doped Activated Carbon. Journal of the Electrochemical Society, 2020, 167, 050506.	2.9	17
23	Facile and controllable synthesis of solid $\text{Co}_3\text{V}_2\text{O}_8$ micro-pencils as a highly efficient anode for Li-ion batteries. RSC Advances, 2017, 7, 24418-24424.	3.6	16
24	Improving the performance and stability of flexible pressure sensors with an air gap structure. RSC Advances, 2017, 7, 48354-48359.	3.6	15
25	Activation-free N-doped porous carbon to enhance surface-driven K storage vs intercalation dominated Na storage. Applied Surface Science, 2020, 506, 144909.	6.1	13
26	Lead zirconate titanate aerogel piezoelectric composite designed with a biomimetic shell structure for underwater acoustic transducers. Chemical Communications, 2021, 57, 9764-9767.	4.1	12
27	Significant reduction of dielectric loss of $\text{Ba}_{0.51}\text{Sr}_{0.34}\text{TiO}_3$ film modified by Y/Mn alternate doping and preheating. Ceramics International, 2018, 44, 15653-15659.	4.8	11
28	Influence of Film Thickness on Dielectric Properties of Y and Mn Alternately Doped BST Films. Integrated Ferroelectrics, 2014, 152, 97-103.	0.7	9
29	Uniform $\text{Co}_3\text{V}_2\text{O}_8$ microspheres <i>via</i> controllable assembly for high-performance lithium-ion battery anodes. New Journal of Chemistry, 2018, 42, 4881-4886.	2.8	9
30	Plasma and magnetron sputtering constructed dual-functional polysulfides barrier separator for high-performance lithium-sulfur batteries. Journal of Colloid and Interface Science, 2022, 613, 636-643.	9.4	9
31	Improved Mechanisms for Excellent Tunable Microwave Ce and Mn Codoped $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ Thin Films. Integrated Ferroelectrics, 2014, 152, 104-112.	0.7	8
32	Sandwich-type composite multilayer films of strontium titanate and barium strontium titanate and their controllable dielectric properties. Journal of Materials Science and Technology, 2021, 85, 245-254.	10.7	7
33	A Novelty Designed $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ Film with High Tunability and Low Dielectric Loss. Integrated Ferroelectrics, 2014, 152, 90-96.	0.7	5
34	Preparation and Dielectric Properties of Cerium and Manganese Codoped $\text{Ba}_{0.6}\text{Sr}_{0.4}\text{TiO}_3$ Ferroelectric Films. Integrated Ferroelectrics, 2013, 144, 107-111.	0.7	4
35	High loading of NiFe active sites on a melamine formaldehyde carbon-based aerogel towards efficient bi-functional electrocatalysis for water splitting. Sustainable Energy and Fuels, 2021, 5, 4973-4980.	4.9	4
36	Rational design and controllable synthesis of polymer aerogel-based single-atom catalysts with high loading. Materials Advances, 2021, 2, 6885-6900.	5.4	3

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37	Comprehensive dielectric performance of alternately doped BST multilayer films coated with strontium titanate thin layers. Journal of Materials Research and Technology, 2021, 13, 385-396.	5.8	3
38	High stability gel electrolytes for long life lithium ion solid state supercapacitor. E3S Web of Conferences, 2021, 257, 01084.	0.5	0