Jiaxuan Liao

List of Publications by Year
in descending order

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38 papers	1,644 citations	393982 19 h-index	329751 37 g-index
38 all docs	38 docs citations	38 times ranked	2095 citing authors

#	Article	IF	Citations
1	Freestanding sandwich-like hierarchically TiS2â€“TiO2/Mxene bi-functional interlayer for stable Liâ€“S batteries. Carbon, 2022, 188, 533-542.	5.4	42
2	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.	5.0	9
3	Synergistic regulating of dynamic trajectory and lithiophilic nucleation by Heusler alloy for dendrite-free Li deposition. Energy Storage Materials, 2022, 50, 505-513.	9.5	25
4	High stability gel electrolytes for long life lithium ion solid state supercapacitor. E3S Web of Conferences, 2021, 257, 01084.	0.2	0
5	Rational design and controllable synthesis of polymer aerogel-based single-atom catalysts with high loading. Materials Advances, 2021, 2, 6885-6900.	2.6	3
6	Insight into MoS₂â€“MoN Heterostructure to Accelerate Polysulfide Conversion toward Highâ€Energyâ€Density Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003314.	10.2	159
7	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.	2.6	3
8	Dual-heterostructures decorated interweaved carbon nanofibers sulfur host for high performance lithium-sulfur batteries. Chemical Engineering Journal, 2021, 418, 129388.	6.6	27
9	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.	5.6	7
10	Immobilizing Polysulfide via Multiple Active Sites in W18O49 for Li-S batteries by Oxygen Vacancy Engineering. Energy Storage Materials, 2021, 43, 422-429.	9.5	55
11	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.	2.5	4
12	Lead zirconate titanate aerogel piezoelectric composite designed with a biomimetic shell structure for underwater acoustic transducers. Chemical Communications, 2021, 57, 9764-9767.	2.2	12
13	Hollow carbon sphere based WS2 anode for high performance lithium and sodium ion batteries. Chemical Physics Letters, 2020, 741, 137061.	1.2	17
14	Activation-free N-doped porous carbon to enhance surface-driven K storage vs intercalation dominated Na storage. Applied Surface Science, 2020, 506, 144909.	3.1	13
15	Excellent Electrochemical Performance of Potassium Ion Capacitor Achieved by a High Nitrogen Doped Activated Carbon. Journal of the Electrochemical Society, 2020, 167, 050506.	1.3	17
16	Controllable morphologies and electrochemical performances of self-assembled nano-honeycomb WS2 anodes modified by graphene doping for lithium and sodium ion batteries. Carbon, 2019, 142, 697-706.	5.4	76
17	Cellulose-Hydrogel-Derived Self-Activated Carbon/SnO₂ Nanocomposites for High-Performance Lithium Storage. ACS Applied Energy Materials, 2019, 2, 5171-5182.	2.5	29
18	Efficient Trapping and Catalytic Conversion of Polysulfides by VS₄ Nanosites for Liâ€“S Batteries. ACS Energy Letters, 2019, 4, 755-762.	8.8	185

#	Article	IF	Citations
19	Scalable, eco-friendly and ultrafast solar steam generators based on one-step melamine-derived carbon sponges toward water purification. Nano Energy, 2019, 58, 322-330.	8.2	246
20	Designing a highly efficient polysulfide conversion catalyst with paramontroseite for high-performance and long-life lithium-sulfur batteries. Nano Energy, 2019, 57, 230-240.	8.2	190
21	Uniform Co₃V₂O₈ microspheres via controllable assembly for high-performance lithium-ion battery anodes. New Journal of Chemistry, 2018, 42, 4881-4886.	1.4	9
22	Systematic comparison of hollow and solid Co 3 V 2 O 8 micro-pencils as advanced anode materials for lithium ion batteries. Electrochimica Acta, 2018, 264, 358-366.	2.6	49
23	Enhanced Electrochemical and Thermal Transport Properties of Graphene/MoS₂ Heterostructures for Energy Storage: Insights from Multiscale Modeling. ACS Applied Materials & Interfaces, 2018, 10, 14614-14621.	4.0	56
24	Significant reduction of dielectric loss of Ba0.51Sr0.34TiO3 film modified by Y/Mn alternate doping and preheating. Ceramics International, 2018, 44, 15653-15659.	2.3	11
25	Graphene Oxideâ€Template Controlled Cuboidâ€Shaped Highâ€Capacity VS₄ Nanoparticles as Anode for Sodiumâ€Ion Batteries. Advanced Functional Materials, 2018, 28, 1801806.	7.8	125
26	Novel spherical cobalt/nickel mixed-vanadates as high-capacity anodes in lithium ion batteries. Journal of Alloys and Compounds, 2018, 766, 442-449.	2.8	33
27	Improving the performance and stability of flexible pressure sensors with an air gap structure. RSC Advances, 2017, 7, 48354-48359.	1.7	15
28	Graphene coated Co₃V₂O₈ micro-pencils for enhanced-performance in lithium ion batteries. New Journal of Chemistry, 2017, 41, 10634-10639.	1.4	18
29	High Rate and Long Cycle Life of a CNT/rGO/Si Nanoparticle Composite Anode for Lithiumâ€Ion Batteries. Particle and Particle Systems Characterization, 2017, 34, 1700141.	1.2	38
30	Facile and controllable synthesis of solid Co₃V₂O₈ micro-pencils as a highly efficient anode for Li-ion batteries. RSC Advances, 2017, 7, 24418-24424.	1.7	16
31	A Facile Approach to Tune the Electrical and Thermal Properties of Graphene Aerogels by Including Bulk MoS2. Nanomaterials, 2017, 7, 420.	1.9	28
32	Influence of Film Thickness on Dielectric Properties of Y and Mn Alternately Doped BST Films. Integrated Ferroelectrics, 2014, 152, 97-103.	0.3	9
33	A Novelly Designed Ba_{0.6}Sr_{0.4}TiO₃ Film with High Tunability and Low Dielectric Loss. Integrated Ferroelectrics, 2014, 152, 90-96.	0.3	5
34	Improved Mechanisms for Excellent Tunable Microwave Ce and Mn Codoped Ba_{0.6}Sr_{0.4}TiO₃ Thin Films. Integrated Ferroelectrics, 2014, 152, 104-112.	0.3	8
35	Effect of doped concentration on dielectric properties of Mn and Y alternately doped BST films. Surface and Coatings Technology, 2014, 251, 307-312.	2.2	23
36	Preparation and Dielectric Properties of Cerium and Manganese Codoped Ba0.6Sr0.4TiO3 Ferroelectric Films. Integrated Ferroelectrics, 2013, 144, 107-111.	0.3	4

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37	Influence of preheating on crystallization and growing behavior of Ce and Mn doped Ba0.6Sr0.4TiO3 film by solâ€“gel method. Surface and Coatings Technology, 2012, 206, 4518-4524.	2.2	34
38	The structure and dielectric properties of a novel kind of doped Ba0.6Sr0.4TiO3 film. Materials Chemistry and Physics, 2012, 135, 1030-1035.	2.0	44