

Tao Tao

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

43
papers

1,219
citations

17
h-index

34
g-index

48
ext. papers

1,547
ext. citations

8.2
avg, IF

4.66
L-index

#	Paper	IF	Citations
43	Optimizing the electrolyte systems for Na ₃ (VO _{1-x} PO ₄) ₂ F _{1+2x} (0 ≤ x ≤ 1) cathode and understanding their interfacial chemistries towards high-rate sodium-ion batteries.. <i>ChemSusChem</i> , 2022 ,	8.3	1
42	Optimizing the Electrolyte Systems for Na (VO PO) F (0 ≤ x ≤ 1) Cathode and Understanding their Interfacial Chemistries Towards High-Rate Sodium-Ion Batteries.. <i>ChemSusChem</i> , 2022 , e202200480	8.3	
41	A liquid cathode/anode based solid-state lithium-sulfur battery. <i>Electrochimica Acta</i> , 2022 , 421, 140456	6.7	1
40	Manipulating the Phase Compositions of Na(VOPO)F (0 ≤ x ≤ 1) and Their Synergistic Effects with Reduced Graphene Oxide toward High-Rate Sodium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	3
39	An Ultra-Long-Life Flexible Lithium-Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. <i>ACS Nano</i> , 2021 , 15, 1358-1369	16.7	19
38	Novel barium zirconate titanate-based lead-free ceramics with stably high energy storage performance over a broad temperature and frequency range. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 11845-11856	2.1	0
37	Effects of organic additives on the microstructural, rheological and electrical properties of silver paste for LTCC applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 14368	2.1	3
36	Enhanced electrocaloric effect at room temperature in Mn ²⁺ doped lead-free (BaSr)TiO ₃ ceramics via a direct measurement. <i>Journal of Advanced Ceramics</i> , 2021 , 10, 482-492	10.7	9
35	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. <i>Nano Letters</i> , 2021 , 21, 3379-3385	11.5	7
34	Highly reversible lithium storage in Li ₂ C ₂ nanosheets. <i>Carbon</i> , 2021 , 177, 357-365	10.4	1
33	Confining Sb nanoparticles in bamboo-like hierarchical porous aligned carbon nanotubes for use as an anode for sodium ion batteries with ultralong cycling performance. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 2152-2160	13	10
32	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. <i>Chemical Communications</i> , 2021 , 57, 1080-1092	5.8	31
31	Strategies, design and synthesis of advanced nanostructured electrodes for rechargeable batteries. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5897-5931	7.8	4
30	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS, WSe, and WTe. <i>ACS Nano</i> , 2021 , 15, 2600-2610	16.7	18
29	Application of H ₄ P ₂ O ₇ as leaching acid in one-step selective recovery for metals from spent LiFePO ₄ batteries. <i>Ionics</i> , 2021 , 27, 5127	2.7	2
28	Enhanced Electrocaloric Effect in 0.73Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.27PbTiO ₃ Single Crystals via Direct Measurement. <i>Crystals</i> , 2020 , 10, 451	2.3	10
27	Direct and indirect measurement of large electrocaloric effect in barium strontium titanate ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2020 , 17, 1354-1361	2	10

26	Ultra-fast and high-energy density polysulfide-eight ion batteries. <i>Journal of Power Sources</i> , 2020 , 477, 229018	8.9	4
25	High performance electrostatically driven thermal switch incorporated with a mini-channel cooling. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-16	1.6	
24	A Self-Healing Amalgam Interface in Metal Batteries. <i>Advanced Materials</i> , 2020 , 32, e2004798	24	11
23	Enhanced Electrocaloric Effect in Sr-Modified Lead-Free BaZr TiO Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20167-20173	9.5	22
22	Repelling Polysulfide Ions by Boron Nitride Nanosheet Coated Separators in Lithium-Sulfur Batteries. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2620-2628	6.1	26
21	5LiFe0.9Mn0.1PO4/Li3V2(PO4)3/C composites as high capacity cathode materials for lithium-ion batteries. <i>Applied Surface Science</i> , 2019 , 483, 1166-1173	6.7	2
20	Electrospinning-Derived PLA/Shellac/PLA Sandwich Structural Membrane Sensor for Detection of Alcoholic Vapors with a Low Molecular Weight. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5419	2.6	2
19	Direct Measurement of Large Electrocaloric Effect in Ba(ZrTi)O Ceramics. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4801-4807	9.5	62
18	A Review of Advanced Flexible Lithium-Ion Batteries. <i>Advanced Materials Technologies</i> , 2018 , 3, 17003756.8		50
17	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultra-Stable Anodes of Lithium-Metal Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1803023	15.6	102
16	Pyroelectric properties of calcium doped strontium barium niobate ceramics Sr0.65CaxBa0.35Nb2O6 (x = 0.05-0.425). <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 17777-17785	2.1	3
15	Large electrocaloric effect obtained in Ba(SnxTi1-x)O3 lead-free ceramics using direct and indirect measurements. <i>Journal of Advanced Dielectrics</i> , 2018 , 08, 1850038	1.3	5
14	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium-Sulfur Batteries. <i>Advanced Energy Materials</i> , 2017 , 7, 1602380	21.8	155
13	Facile Synthesis of Layer Structured GeP/C with Stable Chemical Bonding for Enhanced Lithium-Ion Storage. <i>Scientific Reports</i> , 2017 , 7, 43582	4.9	38
12	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. <i>Advanced Materials</i> , 2017 , 29, 1700542	24	154
11	Two-Dimensional Metal Oxide Nanoflower-Like Architectures: A General Growth Method and Their Applications in Energy Storage and as Model Materials for Nanofabrication. <i>ChemPlusChem</i> , 2017 , 82, 295-302	2.8	6
10	Nanopatterning and Electrical Tuning of MoS2 Layers with a Subnanometer Helium Ion Beam. <i>Nano Letters</i> , 2015 , 15, 5307-13	11.5	138
9	A new way for synthesizing SnO2 nanosheets. <i>Materials Letters</i> , 2015 , 138, 45-47	3.3	17

8 Titanium-Based Nanorods and Nanosheets as Efficient Electrode Materials **2015**, 587-608

7	Lithium ferrite (Li _{0.5} Fe _{2.5} O ₄) nanoparticles as anodes for lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 23145-23148	3.7	33
6	Expanding the applications of the ilmenite mineral to the preparation of nanostructures: TiO ₂ nanorods and their photocatalytic properties in the degradation of oxalic acid. <i>Chemistry - A European Journal</i> , 2013 , 19, 1091-6	4.8	22
5	Enhanced lithium storage in Fe ₂ O ₃ -SnO ₂ -C nanocomposite anode with a breathable structure. <i>Nanoscale</i> , 2013 , 5, 4910-6	7.7	50
4	Ilmenite FeTiO ₃ Nanoflowers and Their Pseudocapacitance. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17297-17302	3.8	42
3	MoO ₃ nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9350		120
2	Porous TiO ₂ with a controllable bimodal pore size distribution from natural ilmenite. <i>CrystEngComm</i> , 2011 , 13, 1322-1327	3.3	17
1	Strategies for Boosting the Activity of Single-Atom Catalysts for Future Energy Applications. <i>Journal of Materials Chemistry A</i> ,	13	2