Tao Tao

List of Publications by Citations

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	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Long-Life Lithium‐Sulfur Batteries. *Advanced Energy Materials*, **2017**, 7, 1602380	21.8	155
42	Anode Improvement in Rechargeable Lithium-Sulfur Batteries. *Advanced Materials*, **2017**, 29, 1700542	24	154
41	Nanopatterning and Electrical Tuning of MoS2 Layers with a Subnanometer Helium Ion Beam. *Nano Letters*, **2015**, 15, 5307-13	11.5	138
40	MoO3 nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. *Journal of Materials Chemistry*, **2011**, 21, 9350		120
39	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultra-Stable Anodes of Lithium-Metal Batteries. *Advanced Functional Materials*, **2018**, 28, 1803023	15.6	102
38	Direct Measurement of Large Electrocaloric Effect in Ba(ZrTi)O Ceramics. *ACS Applied Materials & Interfaces*, **2018**, 10, 4801-4807	9.5	62
37	A Review of Advanced Flexible Lithium-Ion Batteries. *Advanced Materials Technologies*, **2018**, 3, 1700375	6.8	50
36	Enhanced lithium storage in Fe2O3-SnO2-C nanocomposite anode with a breathable structure. *Nanoscale*, **2013**, 5, 4910-6	7.7	50
35	Ilmenite FeTiO3 Nanoflowers and Their Pseudocapacitance. *Journal of Physical Chemistry C*, **2011**, 115, 17297-17302	3.8	42
34	Facile Synthesis of Layer Structured GeP/C with Stable Chemical Bonding for Enhanced Lithium-Ion Storage. *Scientific Reports*, **2017**, 7, 43582	4.9	38
33	Lithium ferrite (Li0.5Fe2.5O4) nanoparticles as anodes for lithium ion batteries. *RSC Advances*, **2014**, 4, 23145-23148	3.7	33
32	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. *Chemical Communications*, **2021**, 57, 1080-1092	5.8	31
31	Repelling Polysulfide Ions by Boron Nitride Nanosheet Coated Separators in Lithium‐Sulfur Batteries. *ACS Applied Energy Materials*, **2019**, 2, 2620-2628	6.1	26
30	Enhanced Electrocaloric Effect in Sr-Modified Lead-Free BaZr TiO Ceramics. *ACS Applied Materials & Interfaces*, **2019**, 11, 20167-20173	9.5	22
29	Expanding the applications of the ilmenite mineral to the preparation of nanostructures: TiO2 nanorods and their photocatalytic properties in the degradation of oxalic acid. *Chemistry - A European Journal*, **2013**, 19, 1091-6	4.8	22
28	An Ultra-Long-Life Flexible Lithium-Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. *ACS Nano*, **2021**, 15, 1358-1369	16.7	19
27	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS, WSe, and WTe. *ACS Nano*, **2021**, 15, 2600-2610	16.7	18

26	A new way for synthesizing SnO2 nanosheets. *Materials Letters*, **2015**, 138, 45-47	3.3	17
25	Porous TiO2 with a controllable bimodal pore size distribution from natural ilmenite. *CrystEngComm*, **2011**, 13, 1322-1327	3.3	17
24	A Self-Healing Amalgam Interface in Metal Batteries. *Advanced Materials*, **2020**, 32, e2004798	24	11
23	Enhanced Electrocaloric Effect in 0.73Pb(Mg1/3Nb2/3)O3-0.27PbTiO3 Single Crystals via Direct Measurement. *Crystals*, **2020**, 10, 451	2.3	10
22	Direct and indirect measurement of large electrocaloric effect in barium strontium titanate ceramics. *International Journal of Applied Ceramic Technology*, **2020**, 17, 1354-1361	2	10
21	Confining Sb nanoparticles in bamboo-like hierarchical porous aligned carbon nanotubes for use as an anode for sodium ion batteries with ultralong cycling performance. *Journal of Materials Chemistry A*, **2021**, 9, 2152-2160	13	10
20	Enhanced electrocaloric effect at room temperature in Mn2+ doped lead-free (BaSr)TiO3 ceramics via a direct measurement. *Journal of Advanced Ceramics*, **2021**, 10, 482-492	10.7	9
19	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. *Nano Letters*, **2021**, 21, 3379-3385	11.5	7
18	Two-Dimensional Metal Oxide Nanoflower-Like Architectures: A General Growth Method and Their Applications in Energy Storage and as Model Materials for Nanofabrication. *ChemPlusChem*, **2017**, 82, 295-302	2.8	6
17	Large electrocaloric effect obtained in Ba(SnxTi1)O3 lead-free ceramics using direct and indirect measurements. *Journal of Advanced Dielectrics*, **2018**, 08, 1850038	1.3	5
16	Ultra-fast and high-energy density polysulfide-eight ion batteries. *Journal of Power Sources*, **2020**, 477, 229018	8.9	4
15	Strategies, design and synthesis of advanced nanostructured electrodes for rechargeable batteries. *Materials Chemistry Frontiers*, **2021**, 5, 5897-5931	7.8	4
14	Manipulating the Phase Compositions of Na(VOPO)F (0 1) and Their Synergistic Effects with Reduced Graphene Oxide toward High-Rate Sodium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2021**,	9.5	3
13	Effects of organic additives on the microstructural, rheological and electrical properties of silver paste for LTCC applications. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 14368	2.1	3
12	Pyroelectric properties of calcium doped strontium barium niobate ceramics Sr0.65CaxBa0.35Nb2O6 (x = 0.050.425). *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 17777-17785	2.1	3
11	5LiFe0.9Mn0.1PO4Li3V2(PO4)3/C composites as high capacity cathode materials for lithium-ion batteries. *Applied Surface Science*, **2019**, 483, 1166-1173	6.7	2
10	Electrospinning-Derived PLA/Shellac/PLA Sandwich Structural Membrane Sensor for Detection of Alcoholic Vapors with a Low Molecular Weight. *Applied Sciences (Switzerland)*, **2019**, 9, 5419	2.6	2
9	Application of H4P2O7 as leaching acid in one-step selective recovery for metals from spent LiFePO4 batteries. *Ionics*, **2021**, 27, 5127	2.7	2

8	Strategies for Boosting the Activity of Single-Atom Catalysts for Future Energy Applications. *Journal of Materials Chemistry A*,	13	2
7	Optimizing the electrolyte systems for Na3(VO1-xPO4)2F1+2x (0≤x≤1) cathode and understanding their interfacial chemistries towards high-rate sodium-ion batteries.. *ChemSusChem*, **2022**,	8.3	1
6	Highly reversible lithium storage in Li2C2 nanosheets. *Carbon*, **2021**, 177, 357-365	10.4	1
5	A liquid cathode/anode based solid-state lithium-sulfur battery. *Electrochimica Acta*, **2022**, 421, 140456	6.7	1
4	Novel barium zirconate titanate-based lead-free ceramics with stably high energy storage performance over a broad temperature and frequency range. *Journal of Materials Science: Materials in Electronics*, **2021**, 32, 11845-11856	2.1	0
3	Titanium-Based Nanorods and Nanosheets as Efficient Electrode Materials **2015**, 587-608		
2	High performance electrostatically driven thermal switch incorporated with a mini-channel cooling. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, **2020**, 1-16	1.6	
1	Optimizing the Electrolyte Systems for Na (VO PO) F (0≤x≤1) Cathode and Understanding their Interfacial Chemistries Towards High-Rate Sodium-Ion Batteries.. *ChemSusChem*, **2022**, e202200480	8.3	