Tao Tao

List of Publications by Year
in descending order

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45	1,945	279701 23	254106 43
papers	citations	h-index	g-index

48	48	48	3376
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anode Improvement in Rechargeable Lithiumâ€“Sulfur Batteries. Advanced Materials, 2017, 29, 1700542.	11.1	225
2	Functionalized Boron Nitride Nanosheets/Graphene Interlayer for Fast and Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2017, 7, 1602380.	10.2	201
3	Nanopatterning and Electrical Tuning of MoS₂ Layers with a Subnanometer Helium Ion Beam. Nano Letters, 2015, 15, 5307-5313.	4.5	171
4	Nanoflake Arrays of Lithiophilic Metal Oxides for the Ultraâ€Stable Anodes of Lithiumâ€Metal Batteries. Advanced Functional Materials, 2018, 28, 1803023.	7.8	156
5	MoO3 nanoparticles dispersed uniformly in carbon matrix: a high capacity composite anode for Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 9350.	6.7	127
6	Mechanochemistry: A force in disguise and conditional effects towards chemical reactions. Chemical Communications, 2021, 57, 1080-1092.	2.2	112
7	Direct Measurement of Large Electrocaloric Effect in Ba(Zr_xTi_{1â€“x})O₃ Ceramics. ACS Applied Materials & Interfaces, 2018, 10, 4801-4807.	4.0	90
8	A Review of Advanced Flexible Lithiumâ€Ion Batteries. Advanced Materials Technologies, 2018, 3, 1700375.	3.0	73
9	Mechanical Properties of Atomically Thin Tungsten Dichalcogenides: WS₂, WSe₂, and WTe₂. ACS Nano, 2021, 15, 2600-2610.	7.3	65
10	Facile Synthesis of Layer Structured GeP3/C with Stable Chemical Bonding for Enhanced Lithium-Ion Storage. Scientific Reports, 2017, 7, 43582.	1.6	56
11	Enhanced lithium storage in Fe2O3â€“SnO2â€“C nanocomposite anode with a breathable structure. Nanoscale, 2013, 5, 4910.	2.8	54
12	An Ultra-Long-Life Flexible Lithiumâ€“Sulfur Battery with Lithium Cloth Anode and Polysulfone-Functionalized Separator. ACS Nano, 2021, 15, 1358-1369.	7.3	53
13	Ilmenite FeTiO₃ Nanoflowers and Their Pseudocapacitance. Journal of Physical Chemistry C, 2011, 115, 17297-17302.	1.5	50
14	Lithium ferrite (Li_{0.5}Fe_{2.5}O₄) nanoparticles as anodes for lithium ion batteries. RSC Advances, 2014, 4, 23145-23148.	1.7	46
15	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.	8.9	40
16	Enhanced Electrocaloric Effect in Sr²⁺-Modified Lead-Free BaZr_xTi_{1â€“x}O₃ Ceramics. ACS Applied Materials & Interfaces, 2019, 11, 20167-20173.	4.0	37
17	A Selfâ€Healing Amalgam Interface in Metal Batteries. Advanced Materials, 2020, 32, e2004798.	11.1	34
18	Repelling Polysulfide Ions by Boron Nitride Nanosheet Coated Separators in Lithiumâ€“Sulfur Batteries. ACS Applied Energy Materials, 2019, 2, 2620-2628.	2.5	32

#	Article	IF	Citations
19	Layer-Dependent Mechanical Properties and Enhanced Plasticity in the Van der Waals Chromium Trihalide Magnets. Nano Letters, 2021, 21, 3379-3385.	4.5	31
20	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.	5.2	28
21	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, 1091-1096.	1.7	25
22	Enhanced Electrocaloric Effect in 0.73Pb(Mg1/3Nb2/3)O3-0.27PbTiO3 Single Crystals via Direct Measurement. Crystals, 2020, 10, 451.	1.0	25
23	Porous TiO2with a controllable bimodal pore size distribution from natural ilmenite. CrystEngComm, 2011, 13, 1322-1327.	1.3	23
24	Direct and indirect measurement of large electrocaloric effect in barium strontium titanate ceramics. International Journal of Applied Ceramic Technology, 2020, 17, 1354-1361.	1.1	23
25	Manipulating the Phase Compositions of Na₃(VO_{1â€“x}PO₄)₂F_{1+2x} (0 â‰¤ Tj ETQq1 1 0.7843 Batteries. ACS Applied Materials & Interfaces, 2021, 13, 60099-60114.	4.0	21
26	A new way for synthesizing SnO2 nanosheets. Materials Letters, 2015, 138, 45-47.	1.3	18
27	Strategies, design and synthesis of advanced nanostructured electrodes for rechargeable batteries. Materials Chemistry Frontiers, 2021, 5, 5897-5931.	3.2	15
28	Unravelling Li⁺ Intercalation Mechanism and Cathode Electrolyte Interphase of Na₃V₂(PO₄)₃ and Na₃(VOPO₄)₂F Cathode as Robust Framework Towards Highâ€Performance Lithiumâ€Ion Batteries. ChemSusChem, 2022, 15, .	3.6	15
29	Strategies for boosting the activity of single-atom catalysts for future energy applications. Journal of Materials Chemistry A, 2022, 10, 10297-10325.	5.2	14
30	Optimizing the Electrolyte Systems for Na₃(VO_{1â€“x}PO₄)₂F_{1+2x} (0â‰¤xâ‰¤1) Cathode and Understanding their Interfacial Chemistries Towards Highâ€Rate Sodiumâ€Ion Batteries. ChemSusChem, 2022, 15, .	3.6	11
31	Application of H4P2O7 as leaching acid in one-step selective recovery for metals from spent LiFePO4 batteries. Ionics, 2021, 27, 5127-5135.	1.2	10
32	Pyroelectric properties of calcium doped strontium barium niobate ceramics Sr0.65â^'xCaxBa0.35Nb2O6 (xâ€‰=â€‰0.05â€“0.425). Journal of Materials Science: Materials in Electronics, 2018, 29, 17777-17785.	1.1	8
33	Large electrocaloric effect obtained in Ba(Sn_xTi1â^'x)O₃ lead-free ceramics using direct and indirect measurements. Journal of Advanced Dielectrics, 2018, 08, 1850038.	1.5	8
34	Twoâ€Dimensional Metal Oxide Nanoflowerâ€Like Architectures: A General Growth Method and Their Applications in Energy Storage and as Model Materials for Nanofabrication. ChemPlusChem, 2017, 82, 295-302.	1.3	6
35	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, 14368-14384.	1.1	6
36	Ultra-fast and high-energy density polysulfide-eight ion batteries. Journal of Power Sources, 2020, 477, 229018.	4.0	5

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37	Highly reversible lithium storage in Li2C2 nanosheets. Carbon, 2021, 177, 357-365.	5.4	5
38	Conversion of layered materials to ultrathin amorphous nanosheets induced by ball-milling insertion and pure-water exfoliation. Journal of Materials Chemistry A, 2022, 10, 11766-11773.	5.2	5
39	Electrospinning-Derived PLA/Shellac/PLA Sandwichâ€"Structural Membrane Sensor for Detection of Alcoholic Vapors with a Low Molecular Weight. Applied Sciences (Switzerland), 2019, 9, 5419.	1.3	4
40	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.	1.1	4
41	5LiFe0.9Mn0.1PO4â^™4Li3V2(PO4)3/C composites as high capacity cathode materials for lithium-ion batteries. Applied Surface Science, 2019, 483, 1166-1173.	3.1	3
42	A liquid cathode/anode based solid-state lithium-sulfur battery. Electrochimica Acta, 2022, 421, 140456.	2.6	3
43	High performance electrostatically driven thermal switch incorporated with a mini-channel cooling. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-16.	1.2	0
44	Titanium-Based Nanorods and Nanosheets as Efficient Electrode Materials. , 2015, , 587-608.		0
45	Optimizing the Electrolyte Systems for Na ₃ (VO _{1â^' x} PO ₄) Tj ETQq1 1 0.784314 rgBT Chemistries Towards Highâ€Rate Sodiumâ€Ion Batteries. ChemSusChem, 2022, , e202200480.	3.6	0