Mingxue Tang

List of Publications by Year
in descending order

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65	4,904	147801	114465
papers	citations	31 h-index	63 g-index

67	67	67	5593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual-enhancement of chromaticity and thermal stability: In-situ synthesis of coreâ€“shell Î³-Ce2S3@CePO4 configuration. Journal of Rare Earths, 2022, 40, 800-806.	4.8	8
2	Combustion Synthesis and Polymer Doping of Metal Oxides for High-Performance Electronic Circuitry. Accounts of Chemical Research, 2022, 55, 429-441.	15.6	6
3	Phase Behavior and Superprotonic Conductivity in the System (1â€“x)CsH₂PO₄ â€“ xH₃PO₄: Discovery of Off-Stoichiometric Î±-[Cs_{1â€“x}H_x]H₂PO₄. Chemistry of Materials, 2022, 34, 1809-1820.	6.7	5
4	Tailoring the Luminescent Properties of SrS:Ce³⁺ by Sr-Deficiency and Na⁺ Doping. Inorganic Chemistry, 2022, 61, 3746-3753.	4.0	5
5	Multiple transition metals modulated hierarchical networks for high performance of metal-ion batteries. Journal of Energy Chemistry, 2022, 70, 604-613.	12.9	11
6	Stackingâ€Fault Enhanced Oxygen Redox in Li₂MnO₃. Advanced Energy Materials, 2022, 12, .	19.5	17
7	Hydrogen bonds enhanced composite polymer electrolyte for high-voltage cathode of solid-state lithium battery. Nano Energy, 2022, 96, 107105.	16.0	44
8	Nanoscale Encapsulation of Hybrid Perovskites Using Hybrid Atomic Layer Deposition. Journal of Physical Chemistry Letters, 2022, 13, 4082-4089.	4.6	5
9	Interrupted anion-network enhanced Li+-ion conduction in Li3+yPO4Iy. Energy Storage Materials, 2022, 51, 88-96.	18.0	6
10	Regulating Hybrid Anodes for Efficient Li⁺/Na⁺ Storage. , 2022, 4, 1411-1421.		9
11	Polymer-based hybrid battery electrolytes: theoretical insights, recent advances and challenges. Journal of Materials Chemistry A, 2021, 9, 6050-6069.	10.3	40
12	Tunable Lithium-Ion Transport in Mixed-Halide Argyrodites Li_{6â€“x}PS_{5â€“x}ClBr_x: An Unusual Compositional Space. Chemistry of Materials, 2021, 33, 1435-1443.	6.7	78
13	Lithium Thiostannate Spinels: Air-Stable Cubic Semiconductors. Chemistry of Materials, 2021, 33, 2080-2089.	6.7	6
14	Scalable High-Pressure Synthesis of sp²â€“sp³ Carbon Nanoribbon via [4 + 2] Polymerization of 1,3,5-Triethynylbenzene. Journal of Physical Chemistry Letters, 2021, 12, 7140-7145.	4.6	5
15	Real-time monitoring of the lithiation process in organic electrode 7,7,8,8-tetracyanoquinodimethane by in situ EPR. Journal of Energy Chemistry, 2021, 60, 9-15.	12.9	17
16	Copper-coordinated cellulose ion conductors for solid-state batteries. Nature, 2021, 598, 590-596.	27.8	262
17	Sodium-Ion Battery Anode Construction with SnP _x Crystal Domain in Amorphous Phosphorus Matrix. Energy Material Advances, 2021, 2021, .	11.0	8
18	Experimental and Theoretical Solid-State ²⁹Si NMR Studies on Defect Structures in La_{9.33+x}(SiO₄)₆O_{2+1.5x} Apatite Oxide Ion Conductors. Inorganic Chemistry, 2021, 60, 16817-16825.	4.0	5

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19	Phase transitions and potential ferroelectricity in noncentrosymmetric KNaNbOF5. Physical Review Materials, 2021, 5, .	2.4	1
20	Crystalline Fully Carboxylated Polyacetylene Obtained under High Pressure as a Li-Ion Battery Anode Material. Journal of Physical Chemistry Letters, 2021, 12, 12055-12061.	4.6	7
21	Fast Li⁺ Conduction Mechanism and Interfacial Chemistry of a NASICON/Polymer Composite Electrolyte. Journal of the American Chemical Society, 2020, 142, 2497-2505.	13.7	199
22	Discordant nature of Cd in PbSe: off-centering and coreâ€“shell nanoscale CdSe precipitates lead to high thermoelectric performance. Energy and Environmental Science, 2020, 13, 200-211.	30.8	57
23	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie, 2020, 132, 4160-4166.	2.0	27
24	Enhanced Surface Interactions Enable Fast Li⁺ Conduction in Oxide/Polymer Composite Electrolyte. Angewandte Chemie - International Edition, 2020, 59, 4131-4137.	13.8	242
25	Structure and Properties of Cs₇(H₄PO₄)(H₂PO₄)₈: A New Superprotonic Solid Acid Featuring the Unusual Polycation (H₄PO₄)⁺. Journal of the American Chemical Society, 2020, 142, 19992-20001.	13.7	9
26	Experimental and theoretical evidence for hydrogen doping in polymer solution-processed indium gallium oxide. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 18231-18239.	7.1	31
27	NASICON Li_{1.2}Mg_{0.1}Zr_{1.9}(PO₄)₃ Solid Electrolyte for an Allâ€Solidâ€State Liâ€Metal Battery. Small Methods, 2020, 4, 2000764.	8.6	42
28	Distance-Selected Topochemical Dehydro-Dielsâ€“Alder Reaction of 1,4-Diphenylbutadiyne toward Crystalline Graphitic Nanoribbons. Journal of the American Chemical Society, 2020, 142, 17662-17669.	13.7	23
29	Recent Advances in Solid-State Nuclear Magnetic Resonance Techniques for Materials Research. Annual Review of Materials Research, 2020, 50, 493-520.	9.3	18
30	Frequency-Agile Low-Temperature Solution-Processed Alumina Dielectrics for Inorganic and Organic Electronics Enhanced by Fluoride Doping. Journal of the American Chemical Society, 2020, 142, 12440-12452.	13.7	27
31	Enhanced Ion Conduction in Li_{2.5}Zn_{0.25}PS₄ via Anion Doping. Chemistry of Materials, 2020, 32, 3036-3042.	6.7	9
32	Fast Ion Conduction and Its Origin in Li_{6â€“x}PS_{5â€“x}Br_{1+x}. Chemistry of Materials, 2020, 32, 3833-3840.	6.7	75
33	Microscopic Insights into the Reconstructive Phase Transition of KNaNbOF₅ with ¹⁹F NMR Spectroscopy. Chemistry of Materials, 2020, 32, 5715-5722.	6.7	5
34	Synthesis and characterizations of highly conductive and stable electrolyte Li10P3S12I. Energy Storage Materials, 2019, 22, 397-401.	18.0	24
35	Radical Dimerization in a Plastic Organic Crystal Leads to Structural and Magnetic Bistability with Wide Thermal Hysteresis. Journal of the American Chemical Society, 2019, 141, 17989-17994.	13.7	31
36	High-performance all-solid-state batteries enabled by salt bonding to perovskite in poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6 18815-18821.	7.1	213

#	Article	IF	Citations
37	Interface-Enabled Ion Conduction in Li₁₀GeP₂S₁₂â€“Poly(ethylene) Tj ETQq1 1 0.784314 rgB	3.1	90
38	Deep Eutectic Solvent with Prussian Blue and Tungsten Oxide for Green and Low-Cost Electrochromic Devices. ACS Applied Electronic Materials, 2019, 1, 1038-1045.	4.3	24
39	Understanding the Low-Voltage Hysteresis of Anionic Redox in Na₂Mn₃O₇. Chemistry of Materials, 2019, 31, 3756-3765.	6.7	112
40	Lithium-Doping Stabilized High-Performance P2â€“Na_{0.66}Li_{0.18}Fe_{0.12}Mn_{0.7}O₂ Cathode for Sodium Ion Batteries. Journal of the American Chemical Society, 2019, 141, 6680-6689.	13.7	187
41	Coaxial Carbon Nanotube Supported TiO₂@MoO₂@Carbon Coreâ€“Shell Anode for Ultrafast and High-Capacity Sodium Ion Storage. ACS Nano, 2019, 13, 671-680.	14.6	41
42	Studies of Functional Defects for Fast Naâ€‐ion Conduction in Na_{3â^’}_yPS_{4â^’}_xCl_x with a Combined Experimental and Computational Approach. Advanced Functional Materials, 2019, 29, 1807951.	14.9	51
43	Electrochemical behavior of Bi₄B₂O₉towards lithium-reversible conversion reactions without nanosizing. Physical Chemistry Chemical Physics, 2018, 20, 2330-2338.	2.8	9
44	New Insights into the Compositional Dependence of Li-Ion Transport in Polymerâ€“Ceramic Composite Electrolytes. ACS Applied Materials & Interfaces, 2018, 10, 4113-4120.	8.0	341
45	Li Distribution Heterogeneity in Solid Electrolyte Li₁₀GeP₂S₁₂ upon Electrochemical Cycling Probed by ⁷Li MRI. Journal of Physical Chemistry Letters, 2018, 9, 1990-1998.	4.6	80
46	Chemical Insights into PbSeâ€“x%HgSe: High Power Factor and Improved Thermoelectric Performance by Alloying with Discordant Atoms. Journal of the American Chemical Society, 2018, 140, 18115-18123.	13.7	80
47	In situ synthesis and in operando NMR studies of a high-performance Ni₅P₄-nanosheet anode. Journal of Materials Chemistry A, 2018, 6, 22240-22247.	10.3	18
48	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€‐ion Batteries. Angewandte Chemie - International Edition, 2018, 57, 8587-8591.	13.8	103
49	A Perovskite Electrolyte That Is Stable in Moist Air for Lithiumâ€‐ion Batteries. Angewandte Chemie, 2018, 130, 8723-8727.	2.0	7
50	Composite Polymer Electrolytes with Li₇La₃Zr₂O₁₂ Garnet-Type Nanowires as Ceramic Fillers: Mechanism of Conductivity Enhancement and Role of Doping and Morphology. ACS Applied Materials & Interfaces, 2017, 9, 21773-21780.	8.0	316
51	Lithiation and Delithiation Dynamics of Different Li Sites in Li-Rich Battery Cathodes Studied by Operando Nuclear Magnetic Resonance. Chemistry of Materials, 2017, 29, 8282-8291.	6.7	41
52	Li-ion transport in a representative ceramicâ€“polymerâ€“plasticizer composite electrolyte: Li₇La₃Zr₂O₁₂â€“polyethylene oxideâ€“tetraethylene glycol dimethyl ether. Journal of Materials Chemistry A, 2017, 5, 18457-18463.	10.3	109
53	Operando EPR for Simultaneous Monitoring of Anionic and Cationic Redox Processes in Li-Rich Metal Oxide Cathodes. Journal of Physical Chemistry Letters, 2017, 8, 4009-4016.	4.6	70
54	Role of Electrolyte Anions in the Naâ€“O₂ Battery: Implications for NaO₂ Solvation and the Stability of the Sodium Solid Electrolyte Interphase in Glyme Ethers. Chemistry of Materials, 2017, 29, 6066-6075.	6.7	141

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55	Measuring Nano- to Microstructures from Relayed Dynamic Nuclear Polarization NMR. Journal of Physical Chemistry C, 2017, 121, 15993-16005.	3.1	88
56	On the origin of high ionic conductivity in Na-doped SrSiO₃. Chemical Science, 2016, 7, 3667-3675.	7.4	23
57	Lithium Ion Pathway within Li₇La₃Zr₂O₁₂â€Polyethylene Oxide Composite Electrolytes. Angewandte Chemie, 2016, 128, 12726-12730.	2.0	114
58	Lithium Ion Pathway within Li₇La₃Zr₂O₁₂â€Polyethylene Oxide Composite Electrolytes. Angewandte Chemie - International Edition, 2016, 55, 12538-12542.	13.8	438
59	Following lithiation fronts in paramagnetic electrodes with in situ magnetic resonance spectroscopic imaging. Nature Communications, 2016, 7, 13284.	12.8	38
60	Elucidation of the Local and Long-Range Structural Changes that Occur in Germanium Anodes in Lithium-Ion Batteries. Chemistry of Materials, 2015, 27, 1031-1041.	6.7	86
61	Solid-State NMR of the Family of Positive Electrode Materials Li₂Ru_{1â€“y}Sn_yO₃ for Lithium-Ion Batteries. Chemistry of Materials, 2014, 26, 7009-7019.	6.7	59
62	Origin of additional capacities in metal oxide lithium-ion battery electrodes. Nature Materials, 2013, 12, 1130-1136.	27.5	635
63	Source of Additional Capacities Seen in Metal Oxide/Fluoride Electrodes. ECS Meeting Abstracts, 2013, , .	0.0	0
64	Structure, defects and thermal stability of delithiated olivine phosphates. Journal of Materials Chemistry, 2012, 22, 20482.	6.7	18
65	Fluoride Doping in Crystalline and Amorphous Indium Oxide Semiconductors. Chemistry of Materials, 0, , .	6.7	1