Yingbin Tan

List of Publications by Year
in descending order

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25 papers	3,086 citations	279798 23 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	3041 citing authors

#	Article	IF	Citations
1	A flexible electron-blocking interfacial shield for dendrite-free solid lithium metal batteries. Nature Communications, 2021, 12, 176.	12.8	136
2	Chemical interface engineering of solid garnet batteries for long-life and high-rate performance. Chemical Engineering Journal, 2021, 424, 130423.	12.7	25
3	Design of a mixed conductive garnet/Li interface for dendrite-free solid lithium metal batteries. Energy and Environmental Science, 2020, 13, 127-134.	30.8	269
4	Bifunctional composite separator with a solid-state-battery strategy for dendrite-free lithium metal batteries. Energy Storage Materials, 2020, 29, 361-366.	18.0	157
5	Comprehensive Investigation into Garnet Electrolytes Toward Application-Oriented Solid Lithium Batteries. Electrochemical Energy Reviews, 2020, 3, 656-689.	25.5	99
6	Dynamics of the Garnet/Li Interface for Dendrite-Free Solid-State Batteries. ACS Energy Letters, 2020, 5, 2156-2164.	17.4	76
7	Surface coating of LiMn₂O₄ cathodes with garnet electrolytes for improving cycling stability of solid lithium batteries. Journal of Materials Chemistry A, 2020, 8, 4252-4256.	10.3	40
8	Interface engineering on cathode side for solid garnet batteries. Chemical Engineering Journal, 2020, 387, 124089.	12.7	80
9	In-situ formed Li2CO3-free garnet/Li interface by rapid acid treatment for dendrite-free solid-state batteries. Nano Energy, 2019, 61, 119-125.	16.0	281
10	Solid Garnet Batteries. Joule, 2019, 3, 1190-1199.	24.0	352
11	Rational Design of Hierarchical â€œCeramicâ€inâ€Polymerâ€•and â€œPolymerâ€inâ€Ceramicâ€•Electrolytes for Dendriteâ€Free Solidâ€State Batteries. Advanced Energy Materials, 2019, 9, 1804004.	19.5	422
12	Nanocomposite intermediate layers formed by conversion reaction of SnO2 for Li/garnet/Li cycle stability. Journal of Power Sources, 2019, 420, 15-21.	7.8	61
13	Construction of NiCo₂O₄@graphene nanorods by tuning the compositional chemistry of metalâ€“organic frameworks with enhanced lithium storage properties. Journal of Materials Chemistry A, 2018, 6, 19604-19610.	10.3	38
14	Formation of self-limited, stable and conductive interfaces between garnet electrolytes and lithium anodes for reversible lithium cycling in solid-state batteries. Journal of Materials Chemistry A, 2018, 6, 11463-11470.	10.3	186
15	Formation of Nanosized Defective Lithium Peroxides through Si-Coated Carbon Nanotube Cathodes for High Energy Efficiency Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2018, 10, 18754-18760.	8.0	27
16	Monodispersed Carbon-Coated Cubic NiP₂ Nanoparticles Anchored on Carbon Nanotubes as Ultra-Long-Life Anodes for Reversible Lithium Storage. ACS Nano, 2017, 11, 3705-3715.	14.6	231
17	Immobilization of sulfur by constructing three-dimensional nitrogen rich carbons for long life lithiumâ€“sulfur batteries. Journal of Materials Chemistry A, 2017, 5, 8360-8366.	10.3	26
18	Controllable synthesis of hollow copper oxide encapsulated into N-doped carbon nanosheets as high-stability anodes for lithium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 24139-24144.	10.3	22

#	Article	IF	Citations
19	Achieving highly stable Liâ€“O₂ battery operation by designing a carbon nitride-based cathode towards a stable reaction interface. Journal of Materials Chemistry A, 2017, 5, 18207-18213.	10.3	14
20	Novel one-step gas-phase reaction synthesis of transition metal sulfide nanoparticles embedded in carbon matrices for reversible lithium storage. Journal of Materials Chemistry A, 2016, 4, 16849-16855.	10.3	46
21	Job-sharing cathode design for Liâ€“O₂batteries with high energy efficiency enabled by in situ ionic liquid bonding to cover carbon surface defects. Journal of Materials Chemistry A, 2016, 4, 241-249.	10.3	31
22	All solid state lithium batteries based on lamellar garnet-type ceramic electrolytes. Journal of Power Sources, 2015, 300, 24-28.	7.8	204
23	W-Doped Li7La3Zr2O12 Ceramic Electrolytes for Solid State Li-ion Batteries. Electrochimica Acta, 2015, 180, 37-42.	5.2	146
24	Tracking Formation and Decomposition of Abacus-Ball-Shaped Lithium Peroxides in Liâ€“O2 Cells. Journal of Physical Chemistry C, 2013, 117, 2623-2627.	3.1	78
25	The Role of Charge Reactions in Cyclability of Lithiumâ€“Oxygen Batteries. Advanced Energy Materials, 2013, 3, 1413-1416.	19.5	39