

# Tan Shi

## List of Publications by Year in descending order

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25  
papers

4,025  
citations

279798

23  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

4318  
citing authors

#	ARTICLE	IF	CITATIONS
1	Promises and Challenges of Next-Generation "Beyond Li-ion" Batteries for Electric Vehicles and Grid Decarbonization. <i>Chemical Reviews</i> , 2021, 121, 1623-1669.	47.7	769
2	Reversible Mn <sup>2+</sup> /Mn <sup>4+</sup> double redox in lithium-excess cathode materials. <i>Nature</i> , 2018, 556, 185-190.	27.8	525
3	Investigation of Potassium Storage in Layered P <sub>3</sub> -type K <sub>0.5</sub> MnO <sub>2</sub> Cathode. <i>Advanced Materials</i> , 2017, 29, 1702480.	21.0	268
4	Compatibility issues between electrodes and electrolytes in solid-state batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1150-1166.	30.8	267
5	K-ion Batteries Based on a P <sub>2</sub> -type K <sub>0.6</sub> CoO <sub>2</sub> Cathode. <i>Advanced Energy Materials</i> , 2017, 7, 1700098.	19.5	250
6	High magnesium mobility in ternary spinel chalcogenides. <i>Nature Communications</i> , 2017, 8, 1759.	12.8	212
7	Mitigating oxygen loss to improve the cycling performance of high capacity cation-disordered cathode materials. <i>Nature Communications</i> , 2017, 8, 981.	12.8	197
8	Hidden structural and chemical order controls lithium transport in cation-disordered oxides for rechargeable batteries. <i>Nature Communications</i> , 2019, 10, 592.	12.8	162
9	High Active Material Loading in All-Solid-State Battery Electrode via Particle Size Optimization. <i>Advanced Energy Materials</i> , 2020, 10, 1902881.	19.5	152
10	A New Strategy for High-Voltage Cathodes for K-ion Batteries: Stoichiometric KVPO <sub>4</sub> F. <i>Advanced Energy Materials</i> , 2018, 8, 1801591.	19.5	130
11	The interplay between thermodynamics and kinetics in the solid-state synthesis of layered oxides. <i>Nature Materials</i> , 2020, 19, 1088-1095.	27.5	129
12	Improved Cycling Performance of Li-Excess Cation-Disordered Cathode Materials upon Fluorine Substitution. <i>Advanced Energy Materials</i> , 2019, 9, 1802959.	19.5	127
13	A High-Energy NASICON-type Cathode Material for Na-ion Batteries. <i>Advanced Energy Materials</i> , 2020, 10, 1903968.	19.5	116
14	Stoichiometric Layered Potassium Transition Metal Oxide for Rechargeable Potassium Batteries. <i>Chemistry of Materials</i> , 2018, 30, 6532-6539.	6.7	108
15	Characterization of mechanical degradation in an all-solid-state battery cathode. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17399-17404.	10.3	100
16	3D Scaffolded Nickel-Tin Li-ion Anodes with Enhanced Cyclability. <i>Advanced Materials</i> , 2016, 28, 742-747.	21.0	90
17	Electrodeposition and Mechanical Stability at Lithium-Solid Electrolyte Interface during Plating in Solid-State Batteries. <i>Cell Reports Physical Science</i> , 2020, 1, 100106.	5.6	77
18	Direct Visualization of the Interfacial Degradation of Cathode Coatings in Solid State Batteries: A Combined Experimental and Computational Study. <i>Advanced Energy Materials</i> , 2020, 10, 1903778.	19.5	67

#	ARTICLE	IF	CITATIONS
19	Understanding Surface Densified Phases in Ni-Rich Layered Compounds. ACS Energy Letters, 2019, 4, 811-818.	17.4	64
20	Electrochemical properties and structural evolution of O3-type layered sodium mixed transition metal oxides with trivalent nickel. Journal of Materials Chemistry A, 2017, 5, 4596-4606.	10.3	63
21	Electroplating lithium transition metal oxides. Science Advances, 2017, 3, e1602427.	10.3	62
22	Direct Observation of Alternating Octahedral and Prismatic Sodium Layers in O3-type Transition Metal Oxides. Advanced Energy Materials, 2020, 10, 2001151.	19.5	39
23	Understanding metal propagation in solid electrolytes due to mixed ionic-electronic conduction. Matter, 2021, 4, 3248-3268.	10.0	27
24	Shear-Assisted Formation of Cation-Disordered Rocksalt NaMO <sub>2</sub> (M = Fe or Mn). Chemistry of Materials, 2018, 30, 8811-8821.	6.7	17
25	All-Solid-State Batteries: High Active Material Loading in All-Solid-State Battery Electrode via Particle Size Optimization (Adv. Energy Mater. 1/2020). Advanced Energy Materials, 2020, 10, 2070004.	19.5	7