Shan-Yu Wang

List of Publications by Year
in descending order

28 papers	4,280 citations	218677 26 h-index	501196 28 g-index
28 all docs	28 docs citations	28 times ranked	5164 citing authors

#	Article	IF	Citations
1	All solid thick oxide cathodes based on low temperature sintering for high energy solid batteries. Energy and Environmental Science, 2021, 14, 5044-5056.	30.8	41
2	Blocking Ion Migration Stabilizes the High Thermoelectric Performance in Cu₂Se Composites. Advanced Materials, 2020, 32, e2003730.	21.0	99
3	Complex electronic structure and compositing effect in high performance thermoelectric BiCuSeO. Nature Communications, 2019, 10, 2814.	12.8	81
4	A multi-functional interface derived from thiol-modified mesoporous carbon in lithiumâ€"sulfur batteries. Journal of Materials Chemistry A, 2019, 7, 13372-13381.	10.3	17
5	Reaction Mechanisms for Long-Life Rechargeable Zn/MnO₂ Batteries. Chemistry of Materials, 2019, 31, 2036-2047.	6.7	195
6	Facilitating the Operation of Lithium-Ion Cells with High-Nickel Layered Oxide Cathodes with a Small Dose of Aluminum. Chemistry of Materials, 2018, 30, 3101-3109.	6.7	119
7	The role of the solid electrolyte interphase layer in preventing Li dendrite growth in solid-state batteries. Energy and Environmental Science, 2018, 11, 1803-1810.	30.8	304
8	Quantitative nanoscale mapping of three-phase thermal conductivities in filled skutterudites via scanning thermal microscopy. National Science Review, 2018, 5, 59-69.	9.5	26
9	Waterâ€Lubricated Intercalation in V₂O₅Â·nH₂O for Highâ€Capacity and Highâ€Rate Aqueous Rechargeable Zinc Batteries. Advanced Materials, 2018, 30, 1703725.	21.0	1,084
10	Separating electronic and ionic conductivity in mix-conducting layered lithium transition-metal oxides. Journal of Power Sources, 2018, 393, 75-82.	7.8	104
11	Electrochemical and interfacial behavior of all solid state batteries using Li10SnP2S12 solid electrolyte. Journal of Power Sources, 2018, 396, 824-830.	7.8	54
12	Resonant level-induced high thermoelectric response in indium-doped GeTe. NPG Asia Materials, 2017, 9, e343-e343.	7.9	170
13	Enhancing thermoelectric performance in hierarchically structured BiCuSeO by increasing bond covalency and weakening carrierâ€"phonon coupling. Energy and Environmental Science, 2017, 10, 1590-1599.	30.8	115
14	High-performance n-type YbxCo4Sb12: from partially filled skutterudites towards composite thermoelectrics. NPG Asia Materials, 2016, 8, e285-e285.	7.9	102
15	Electronegative guests in CoSb₃. Energy and Environmental Science, 2016, 9, 2090-2098.	30.8	93
16	High thermoelectric performance in Te-free (Bi,Sb)₂Se₃via structural transition induced band convergence and chemical bond softening. Energy and Environmental Science, 2016, 9, 3436-3447.	30.8	159
17	Interfacial behaviours between lithium ion conductors and electrode materials in various battery systems. Journal of Materials Chemistry A, 2016, 4, 15266-15280.	10.3	184
18	Minimum Thermal Conductivity in Weak Topological Insulators with Bismuthâ€Based Stack Structure. Advanced Functional Materials, 2016, 26, 5360-5367.	14.9	29

#	ARTICLE	IF	CITATIONS
19	Enhanced Thermoelectric Performance in Cu-Intercalated BiTeI by Compensation Weakening Induced Mobility Improvement. Scientific Reports, 2015, 5, 14319.	3.3	33
20	On Intensifying Carrier Impurity Scattering to Enhance Thermoelectric Performance in Crâ€Doped Ce_yCo₄Sb₁₂. Advanced Functional Materials, 2015, 25, 6660-6670.	14.9	77
21	Conductivity-limiting bipolar thermal conductivity in semiconductors. Scientific Reports, 2015, 5, 10136.	3.3	107
22	Anisotropic Multicenter Bonding and High Thermoelectric Performance in Electron-Poor CdSb. Chemistry of Materials, 2015, 27, 1071-1081.	6.7	81
23	Two-dimensional thermoelectrics with Rashba spin-split bands in bulk BiTeI. Physical Review B, 2014, 90, .	3.2	74
24	Metal nanoparticle decorated n-type Bi₂Te₃-based materials with enhanced thermoelectric performances. Nanotechnology, 2013, 24, 285702.	2.6	106
25	Enhanced thermoelectric properties of Bi2(Te1âˆ'xSex)3-based compounds as n-type legs for low-temperature power generation. Journal of Materials Chemistry, 2012, 22, 20943.	6.7	147
26	Enhanced performances of melt spun Bi2(Te,Se)3 for n-type thermoelectric legs. Intermetallics, 2011, 19, 1024-1031.	3.9	125
27	Enhancement of the thermoelectric performance of Î²-Zn4Sb3 by in situ nanostructures and minute Cd-doping. Acta Materialia, 2011, 59, 4805-4817.	7.9	70
28	Identifying the Specific Nanostructures Responsible for the High Thermoelectric Performance of (Bi,Sb)₂Te₃ Nanocomposites. Nano Letters, 2010, 10, 3283-3289.	9.1	484