

William Tumas

List of Publications by Year in descending order

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14
papers

1,314
citations

623734

14
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

2229
citing authors

#	ARTICLE	IF	CITATIONS
1	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019, 18, 732-739.	27.5	274
2	Electrochemical trapping of metastable Mn ³⁺ ions for activation of MnO ₂ oxygen evolution catalysts. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E5261-E5268.	7.1	173
3	Origin of Pronounced Nonlinear Band Gap Behavior in Lead-Tin Hybrid Perovskite Alloys. <i>Chemistry of Materials</i> , 2018, 30, 3920-3928.	6.7	166
4	Physical descriptor for the Gibbs energy of inorganic crystalline solids and temperature-dependent materials chemistry. <i>Nature Communications</i> , 2018, 9, 4168.	12.8	152
5	Control of Doping in Cu ₂ SnS ₃ through Defects and Alloying. <i>Chemistry of Materials</i> , 2014, 26, 4951-4959.	6.7	136
6	An open experimental database for exploring inorganic materials. <i>Scientific Data</i> , 2018, 5, 180053.	5.3	121
7	Redox-Mediated Stabilization in Zinc Molybdenum Nitrides. <i>Journal of the American Chemical Society</i> , 2018, 140, 4293-4301.	13.7	53
8	Ternary nitride semiconductors in the rocksalt crystal structure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14829-14834.	7.1	52
9	Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. <i>Science Advances</i> , 2017, 3, e1700270.	10.3	46
10	Negative-pressure polymorphs made by heterostructural alloying. <i>Science Advances</i> , 2018, 4, eaq1442.	10.3	34
11	Zn ₂ SbN ₃ : growth and characterization of a metastable photoactive semiconductor. <i>Materials Horizons</i> , 2019, 6, 1669-1674.	12.2	32
12	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. <i>Journal of Chemical Physics</i> , 2016, 144, 144201.	3.0	29
13	Design of Metastable Tin Titanium Nitride Semiconductor Alloys. <i>Chemistry of Materials</i> , 2017, 29, 6511-6517.	6.7	27
14	Research data infrastructure for high-throughput experimental materials science. <i>Patterns</i> , 2021, 2, 100373.	5.9	19