

Aaron M Holder

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,968
citations

279798

23
h-index

289244

40
g-index

40
all docs

40
docs citations

40
times ranked

3153
citing authors

#	ARTICLE	IF	CITATIONS
1	Predicting Oxygen Off-Stoichiometry and Hydrogen Incorporation in Complex Perovskite Oxides. <i>Chemistry of Materials</i> , 2022, 34, 510-518.	6.7	7
2	Templated Growth of Metastable Polymorphs on Amorphous Substrates with Seed Layers. <i>Physical Review Applied</i> , 2020, 13, .	3.8	7
3	Stabilizing Hydrogen Adsorption through Theory-Guided Chalcogen Substitution in Chevrel-Phase Mo_6X_8 (X=S, Se, Te) Electrocatalysts. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35995-36003.	8.0	26
4	Computationally Predicted High-Throughput Free-Energy Phase Diagrams for the Discovery of Solid-State Hydrogen Storage Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48553-48564.	8.0	6
5	High-Throughput Analysis of Materials for Chemical Looping Processes. <i>Advanced Energy Materials</i> , 2020, 10, 2000685.	19.5	18
6	Inorganic Halide Double Perovskites with Optoelectronic Properties Modulated by Sublattice Mixing. <i>Journal of the American Chemical Society</i> , 2020, 142, 5135-5145.	13.7	62
7	Wurtzite materials in alloys of rock salt compounds. <i>Journal of Materials Research</i> , 2020, 35, 972-980.	2.6	2
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	Kinetically Controlled Low-Temperature Solid-State Metathesis of Manganese Nitride Mn_3N_2 . <i>Chemistry of Materials</i> , 2019, 31, 7248-7254.	6.7	26
10	The role of decomposition reactions in assessing first-principles predictions of solid stability. <i>Npj Computational Materials</i> , 2019, 5, .	8.7	63
11	A map of the inorganic ternary metal nitrides. <i>Nature Materials</i> , 2019, 18, 732-739.	27.5	274
12	High-Throughput Experimental Study of Wurtzite $\text{Mn}_{1-x}\text{Zn}_x\text{O}$ Alloys for Water Splitting Applications. <i>ACS Omega</i> , 2019, 4, 7436-7447.	3.5	5
13	Zn_2SbN_3 : growth and characterization of a metastable photoactive semiconductor. <i>Materials Horizons</i> , 2019, 6, 1669-1674.	12.2	32
14	Rational Design of Efficient Amine Reductant Initiators for Amine-Peroxide Redox Polymerization. <i>Journal of the American Chemical Society</i> , 2019, 141, 6279-6291.	13.7	19
15	High-Throughput Equilibrium Analysis of Active Materials for Solar Thermochemical Ammonia Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 24850-24858.	8.0	21
16	Redox-Mediated Stabilization in Zinc Molybdenum Nitrides. <i>Journal of the American Chemical Society</i> , 2018, 140, 4293-4301.	13.7	53
17	Negative-pressure polymorphs made by heterostructural alloying. <i>Science Advances</i> , 2018, 4, eaq1442.	10.3	34
18	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

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19	Stabilization of wide band-gap p-type wurtzite MnTe thin films on amorphous substrates. Journal of Materials Chemistry C, 2018, 6, 6297-6304.	5.5	21
20	Zinc-Stabilized Manganese Telluride with Wurtzite Crystal Structure. Journal of Physical Chemistry C, 2018, 122, 18769-18775.	3.1	13
21	The Unified Electrochemical Band Diagram Framework: Understanding the Driving Forces of Materials Electrochemistry. Advanced Functional Materials, 2018, 28, 1803439.	14.9	8
22	Implications of heterostructural alloying for enhanced piezoelectric performance of (Al,Sc)N. Physical Review Materials, 2018, 2, .	2.4	47
23	Perovskite-Inspired Photovoltaic Materials: Toward Best Practices in Materials Characterization and Calculations. Chemistry of Materials, 2017, 29, 1964-1988.	6.7	116
24	Solubility limits in quaternary SnTe-based alloys. RSC Advances, 2017, 7, 24747-24753.	3.6	14
25	Novel phase diagram behavior and materials design in heterostructural semiconductor alloys. Science Advances, 2017, 3, e1700270.	10.3	46
26	Dihydropteridine/Pteridine as a $2\text{H}^+ / 2\text{e}^-$ Redox Mediator for the Reduction of CO_2 to Methanol: A Computational Study. Journal of Physical Chemistry B, 2017, 121, 4158-4167.	2.6	13
27	Using heterostructural alloying to tune the structure and properties of the thermoelectric $\text{Sn}_x\text{Ca}_{1-x}\text{Se}$. Journal of Materials Chemistry A, 2017, 5, 16873-16882.	10.3	19
28	Thermodynamic Routes to Novel Metastable Nitrogen-Rich Nitrides. Chemistry of Materials, 2017, 29, 6936-6946.	6.7	121
29	Design of Metastable Tin Titanium Nitride Semiconductor Alloys. Chemistry of Materials, 2017, 29, 6511-6517.	6.7	27
30	Synthesis of a mixed-valent tin nitride and considerations of its possible crystal structures. Journal of Chemical Physics, 2016, 144, 144201.	3.0	29
31	Synthesis and Characterization of (Sn,Zn)O Alloys. Chemistry of Materials, 2016, 28, 7765-7772.	6.7	16
32	Band Diagram and Rate Analysis of Thin Film Spinel LiMn_2O_4 Formed by Electrochemical Conversion of ALD-Grown MnO. Advanced Functional Materials, 2016, 26, 7895-7907.	14.9	37
33	Solvent Control of Surface Plasmon-Mediated Chemical Deposition of Au Nanoparticles from Alkylgold Phosphine Complexes. ACS Applied Materials & Interfaces, 2015, 7, 13384-13394.	8.0	8
34	Intrinsic Material Properties Dictating Oxygen Vacancy Formation Energetics in Metal Oxides. Journal of Physical Chemistry Letters, 2015, 6, 1948-1953.	4.6	103
35	Mechanisms of LiCoO_2 Cathode Degradation by Reaction with HF and Protection by Thin Oxide Coatings. ACS Applied Materials & Interfaces, 2015, 7, 24265-24278.	8.0	98
36	Catalytic Reduction of CO_2 by Renewable Organohydrides. Journal of Physical Chemistry Letters, 2015, 6, 5078-5092.	4.6	59

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37	Tunable Oxygen Vacancy Formation Energetics in the Complex Perovskite Oxide Sr _x La _{1-x} Mn _y Al _{1-y} O ₃ . Chemistry of Materials, 2014, 26, 6595-6602.	13.7	90
38	Reduction of CO ₂ to Methanol Catalyzed by a Biomimetic Organo-Hydride Produced from Pyridine. Journal of the American Chemical Society, 2014, 136, 16081-16095.	13.7	131
39	Effect of Surface Deposited Pt on the Photoactivity of TiO ₂ . Journal of Physical Chemistry C, 2012, 116, 10138-10149.	3.1	92