

Alex M Ganose

List of Publications by Year in descending order

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49
papers

3,579
citations

185998

28
h-index

223531

46
g-index

62
all docs

62
docs citations

62
times ranked

4895
citing authors

#	ARTICLE	IF	CITATIONS
1	Defect Tolerance to Intolerance in the Vacancy-Ordered Double Perovskite Semiconductors Cs ₂ SnI ₆ and Cs ₂ TeI ₆ . Journal of the American Chemical Society, 2016, 138, 8453-8464.	6.6	415
2	Beyond methylammonium lead iodide: prospects for the emergent field of ns ² -containing solar absorbers. Chemical Communications, 2017, 53, 20-44.	2.2	357
3	Interplay of Orbital and Relativistic Effects in Bismuth Oxyhalides: BiOF, BiOCl, BiOBr, and BiOI. Chemistry of Materials, 2016, 28, 1980-1984.	3.2	291
4	sumo: Command-line tools for plotting and analysis of periodic ab initio calculations. Journal of Open Source Software, 2018, 3, 717.	2.0	270
5	Efficient calculation of carrier scattering rates from first principles. Nature Communications, 2021, 12, 2222.	5.8	205
6	Band gap and work function tailoring of SnO ₂ for improved transparent conducting ability in photovoltaics. Journal of Materials Chemistry C, 2016, 4, 1467-1475.	2.7	189
7	Perspectives and Design Principles of Vacancy-Ordered Double Perovskite Halide Semiconductors. Chemistry of Materials, 2019, 31, 1184-1195.	3.2	158
8	Relativistic electronic structure and band alignment of BiI ₃ and BiSeI: candidate photovoltaic materials. Journal of Materials Chemistry A, 2016, 4, 2060-2068.	5.2	127
9	(CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ : A More Stable Structural Motif for Hybrid Halide Photovoltaics?. Journal of Physical Chemistry Letters, 2015, 6, 4594-4598.	2.1	117
10	Tolerance Factor and Cooperative Tilting Effects in Vacancy-Ordered Double Perovskite Halides. Chemistry of Materials, 2018, 30, 3909-3919.	3.2	105
11	Anharmonicity and Octahedral Tilting in Hybrid Vacancy-Ordered Double Perovskites. Chemistry of Materials, 2018, 30, 472-483.	3.2	104
12	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. Journal of the American Chemical Society, 2019, 141, 13867-13876.	6.6	104
13	Benchmarking materials property prediction methods: the Matbench test set and Automatminer reference algorithm. Npj Computational Materials, 2020, 6, .	3.5	96
14	Anion Distribution, Structural Distortion, and Symmetry-Driven Optical Band Gap Bowing in Mixed Halide Cs ₂ SnX ₆ Vacancy Ordered Double Perovskites. Chemistry of Materials, 2019, 31, 9430-9444.	3.2	83
15	Probing the chemical structure of monolayer covalent-organic frameworks grown via Schiff-base condensation reactions. Chemical Communications, 2016, 52, 9941-9944.	2.2	78
16	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. Journal of Materials Chemistry A, 2018, 6, 5652-5660.	5.2	71
17	Defect Engineering of Earth-Abundant Solar Absorbers BiI ₃ and BiSeI. Chemistry of Materials, 2018, 30, 3827-3835.	3.2	68
18	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. Physical Review B, 2016, 94, .	1.1	62

#	ARTICLE	IF	CITATIONS
19	Antiferromagnetism at $T > 500\text{K}$ in the layered hexagonal ruthenate SrRu_2O_6 . <i>Physical Review B</i> , 2015, 92, .	1.1	43
20	Electronic and defect properties of $(\text{CH}_3\text{NH}_3)_2\text{Pb}(\text{SCN})_2\text{I}_2$ analogues for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7845-7853.	5.2	43
21	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12648-12657.	5.2	42
22	Compromise between band structure and phonon scattering in efficient n-Mg ₃ Sb ₂ -Bi thermoelectrics. <i>Materials Today Physics</i> , 2021, 18, 100362.	2.9	41
23	Narrow-band anisotropic electronic structure of ReS_2 . <i>Physical Review B</i> , 2017, 96, .	6.4	39
24	Experimental validation of high thermoelectric performance in RECuZnP_2 predicted by high-throughput DFT calculations. <i>Materials Horizons</i> , 2021, 8, 209-215.	6.4	38
25	Galore: Broadening and weighting for simulation of photoelectron spectroscopy. <i>Journal of Open Source Software</i> , 2018, 3, 773.	2.0	36
26	Exploring the $\text{PbS-Bi}_2\text{S}_3$ Series for Next Generation Energy Conversion Materials. <i>Chemistry of Materials</i> , 2017, 29, 5156-5167.	3.2	32
27	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016, 55, 3393-3400.	1.9	31
28	Benchmarking Coordination Number Prediction Algorithms on Inorganic Crystal Structures. <i>Inorganic Chemistry</i> , 2021, 60, 1590-1603.	1.9	31
29	Correlated Polyhedral Rotations in the Absence of Polarons during Electrochemical Insertion of Lithium in ReO_3 . <i>ACS Energy Letters</i> , 2018, 3, 2513-2519.	8.8	30
30	Robocrystallographer: automated crystal structure text descriptions and analysis. <i>MRS Communications</i> , 2019, 9, 874-881.	0.8	30
31	Computational discovery of promising new n-type dopable ABX ₃ Zintl thermoelectric materials. <i>Materials Horizons</i> , 2020, 7, 1809-1818.	6.4	30
32	Assessing the limitations of transparent conducting oxides as thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11948-11957.	5.2	28
33	Lone pair driven anisotropy in antimony chalcogenide semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7195-7202.	1.3	27
34	IFermi: A python library for Fermi surface generation and analysis. <i>Journal of Open Source Software</i> , 2021, 6, 3089.	2.0	26
35	High Thermoelectric Performance and Defect Energetics of Multipocketed Full Heusler Compounds. <i>Physical Review Applied</i> , 2020, 14, .	1.5	25
36	Two-dimensional eclipsed arrangement hybrid perovskites for tunable energy level alignments and photovoltaics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5139-5147.	2.7	22

#	ARTICLE	IF	CITATIONS
37	Local corrugation and persistent charge density wave in ZrTe ₃ with Ni intercalation. Physical Review B, 2018, 97, .	1.1	16
38	Enumeration as a Tool for Structure Solution: A Materials Genomic Approach to Solving the Cation-Ordered Structure of Na ₃ V ₂ (PO ₄) ₂ F ₃ . Chemistry of Materials, 2020, 32, 8981-8992.	3.2	14
39	BaBi ₂ O ₆ : A Promising n-Type Thermoelectric Oxide with the PbSb ₂ O ₆ Crystal Structure. Chemistry of Materials, 2021, 33, 7441-7456.	3.2	11
40	Insights into the electronic structure of OsO ₂ using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. Physical Review Materials, 2019, 3, .	0.9	9
41	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. Chemistry of Materials, 2017, 29, 3663-3670.	3.2	8
42	Band gap opening from displacive instabilities in layered covalent-organic frameworks. Journal of Materials Chemistry A, 2022, 10, 13500-13507.	5.2	7
43	Influence of One Specific Carbonâ€“Carbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid Organicâ€“Inorganic Bismuth Iodide Materials. ACS Applied Energy Materials, 2019, 2, 1579-1587.	2.5	6
44	Transition Metal Migration Can Facilitate Ionic Diffusion in Defect Garnet-Based Intercalation Electrodes. ACS Energy Letters, 2020, 5, 1448-1455.	8.8	5
45	Vacancy-Ordered Double Perovskites. Springer Theses, 2020, , 87-106.	0.0	0
46	Pseudohalide Perovskite Absorbers. Springer Theses, 2020, , 65-85.	0.0	0
47	Review: Perovskite Photovoltaics. Springer Theses, 2020, , 53-63.	0.0	0
48	Photovoltaics. Springer Theses, 2020, , 3-20.	0.0	0
49	Bismuth Chalcogenides. Springer Theses, 2020, , 117-138.	0.0	0