

Alex M Ganose

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

2,186
citations

24
h-index

46
g-index

62
ext. papers

2,815
ext. citations

7.8
avg, IF

5.65
L-index

#	Paper	IF	Citations
49	Beyond methylammonium lead iodide: prospects for the emergent field of ns containing solar absorbers. <i>Chemical Communications</i> , 2016 , 53, 20-44	5.8	280
48	Defect Tolerance to Intolerance in the Vacancy-Ordered Double Perovskite Semiconductors Cs ₂ SnI ₆ and Cs ₂ TeI ₆ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 8453-64	16.4	264
47	Interplay of Orbital and Relativistic Effects in Bismuth Oxyhalides: BiOF, BiOCl, BiOBr, and BiOI. <i>Chemistry of Materials</i> , 2016 , 28, 1980-1984	9.6	225
46	Band gap and work function tailoring of SnO ₂ for improved transparent conducting ability in photovoltaics. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1467-1475	7.1	141
45	sumo: Command-line tools for plotting and analysis of periodic ab initio calculations. <i>Journal of Open Source Software</i> , 2018 , 3, 717	5.2	127
44	(CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ : a more stable structural motif for hybrid halide photovoltaics?. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 4594-8	6.4	100
43	Relativistic electronic structure and band alignment of BiSI and BiSeI: candidate photovoltaic materials. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2060-2068	13	97
42	Perspectives and Design Principles of Vacancy-Ordered Double Perovskite Halide Semiconductors. <i>Chemistry of Materials</i> , 2019 , 31, 1184-1195	9.6	89
41	Anharmonicity and Octahedral Tilting in Hybrid Vacancy-Ordered Double Perovskites. <i>Chemistry of Materials</i> , 2018 , 30, 472-483	9.6	70
40	Tolerance Factor and Cooperative Tilting Effects in Vacancy-Ordered Double Perovskite Halides. <i>Chemistry of Materials</i> , 2018 , 30, 3909-3919	9.6	63
39	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13867-13876	16.4	55
38	Probing the chemical structure of monolayer covalent-organic frameworks grown via Schiff-base condensation reactions. <i>Chemical Communications</i> , 2016 , 52, 9941-4	5.8	53
37	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. <i>Physical Review B</i> , 2016 , 94,	3.3	51
36	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5652-5660	13	50
35	Efficient calculation of carrier scattering rates from first principles. <i>Nature Communications</i> , 2021 , 12, 2222	17.4	44
34	Defect Engineering of Earth-Abundant Solar Absorbers BiSI and BiSeI. <i>Chemistry of Materials</i> , 2018 , 30, 3827-3835	9.6	39
33	Antiferromagnetism at T>500K in the layered hexagonal ruthenate SrRu ₂ O ₆ . <i>Physical Review B</i> , 2015 , 92,	3.3	38

32	Electronic and defect properties of (CH ₃ NH ₃) ₂ Pb(SCN) ₂ I ₂ analogues for photovoltaic applications. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7845-7853	13	37
31	Narrow-band anisotropic electronic structure of ReS ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	33
30	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12648-12657	13	32
29	Anion Distribution, Structural Distortion, and Symmetry-Driven Optical Band Gap Bowing in Mixed Halide CsSnX Vacancy Ordered Double Perovskites. <i>Chemistry of Materials</i> , 2019 , 31, 9430-9444	9.6	32
28	Galore: Broadening and weighting for simulation of photoelectron spectroscopy. <i>Journal of Open Source Software</i> , 2018 , 3, 773	5.2	25
27	Benchmarking materials property prediction methods: the Matbench test set and Automatminer reference algorithm. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	25
26	Exploring the PbS ₂ Bi ₂ S ₃ Series for Next Generation Energy Conversion Materials. <i>Chemistry of Materials</i> , 2017 , 29, 5156-5167	9.6	24
25	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , 2016 , 55, 3393-400	5.1	23
24	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	20.1	23
23	Compromise between band structure and phonon scattering in efficient n-Mg ₃ Sb ₂ -xBi _x thermoelectrics. <i>Materials Today Physics</i> , 2021 , 18, 100362	8	15
22	Two-dimensional eclipsed arrangement hybrid perovskites for tunable energy level alignments and photovoltaics. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5139-5147	7.1	14
21	Computational discovery of promising new n-type dopable ABX ₂ Zintl thermoelectric materials. <i>Materials Horizons</i> , 2020 , 7, 1809-1818	14.4	14
20	Local corrugation and persistent charge density wave in ZrTe ₃ with Ni intercalation. <i>Physical Review B</i> , 2018 , 97,	3.3	12
19	Experimental validation of high thermoelectric performance in RECuZnP predicted by high-throughput DFT calculations. <i>Materials Horizons</i> , 2021 , 8, 209-215	14.4	12
18	Robocrystallographer: automated crystal structure text descriptions and analysis. <i>MRS Communications</i> , 2019 , 9, 874-881	2.7	11
17	Assessing the limitations of transparent conducting oxides as thermoelectrics. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11948-11957	13	9
16	Insights into the electronic structure of OsO ₂ using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
15	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 . <i>Chemistry of Materials</i> , 2020 , 32, 8981-8992	9.6	7

14	Benchmarking Coordination Number Prediction Algorithms on Inorganic Crystal Structures. <i>Inorganic Chemistry</i> , 2021 , 60, 1590-1603	5.1	7
13	IFermi: A python library for Fermi surface generation and analysis. <i>Journal of Open Source Software</i> , 2021 , 6, 3089	5.2	7
12	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. <i>Chemistry of Materials</i> , 2017 , 29, 3663-3670	9.6	6
11	High Thermoelectric Performance and Defect Energetics of Multipocketed Full Heusler Compounds. <i>Physical Review Applied</i> , 2020 , 14,	4.3	6
10	Influence of One Specific Carbon-Carbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid Organic-Inorganic Bismuth Iodide Materials. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1579-1587	6.1	4
9	Transition Metal Migration Can Facilitate Ionic Diffusion in Defect Garnet-Based Intercalation Electrodes. <i>ACS Energy Letters</i> , 2020 , 5, 1448-1455	20.1	3
8	Lone pair driven anisotropy in antimony chalcogenide semiconductors.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	3
7	BaBi2O6: A Promising n-Type Thermoelectric Oxide with the PbSb2O6 Crystal Structure. <i>Chemistry of Materials</i> , 2021 , 33, 7441-7456	9.6	2
6	Review: Bismuth-Based Photovoltaics. <i>Springer Theses</i> , 2020 , 109-116	0.1	
5	Vacancy-Ordered Double Perovskites. <i>Springer Theses</i> , 2020 , 87-106	0.1	
4	Pseudohalide Perovskite Absorbers. <i>Springer Theses</i> , 2020 , 65-85	0.1	
3	Review: Perovskite Photovoltaics. <i>Springer Theses</i> , 2020 , 53-63	0.1	
2	Photovoltaics. <i>Springer Theses</i> , 2020 , 3-20	0.1	
1	Bismuth Chalcogenides. <i>Springer Theses</i> , 2020 , 117-138	0.1	