## Alex M Ganose

## List of Publications by Year in Descending Order

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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.

2,186 46 49 24 g-index h-index citations papers 62 2,815 5.65 7.8 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
49	Lone pair driven anisotropy in antimony chalcogenide semiconductors <i>Physical Chemistry Chemical Physics</i> , <b>2022</b> ,	3.6	3
48	Efficient calculation of carrier scattering rates from first principles. <i>Nature Communications</i> , <b>2021</b> , 12, 2222	17.4	44
47	Compromise between band structure and phonon scattering in efficient n-Mg3Sb2-xBix thermoelectrics. <i>Materials Today Physics</i> , <b>2021</b> , 18, 100362	8	15
46	Experimental validation of high thermoelectric performance in RECuZnP predicted by high-throughput DFT calculations. <i>Materials Horizons</i> , <b>2021</b> , 8, 209-215	14.4	12
45	Benchmarking Coordination Number Prediction Algorithms on Inorganic Crystal Structures. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 1590-1603	5.1	7
44	IFermi: A python library for Fermi surface generation and analysis. <i>Journal of Open Source Software</i> , <b>2021</b> , 6, 3089	5.2	7
43	BaBi2O6: A Promising n-Type Thermoelectric Oxide with the PbSb2O6 Crystal Structure. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7441-7456	9.6	2
42	Computational discovery of promising new n-type dopable ABX Zintl thermoelectric materials. <i>Materials Horizons</i> , <b>2020</b> , 7, 1809-1818	14.4	14
41	Assessing the limitations of transparent conducting oxides as thermoelectrics. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11948-11957	13	9
40	Transition Metal Migration Can Facilitate Ionic Diffusion in Defect Garnet-Based Intercalation Electrodes. <i>ACS Energy Letters</i> , <b>2020</b> , 5, 1448-1455	20.1	3
39	Review: Bismuth-Based Photovoltaics. <i>Springer Theses</i> , <b>2020</b> , 109-116	0.1	
38	Vacancy-Ordered Double Perovskites. <i>Springer Theses</i> , <b>2020</b> , 87-106	0.1	
37	Pseudohalide Perovskite Absorbers. <i>Springer Theses</i> , <b>2020</b> , 65-85	0.1	
36	Review: Perovskite Photovoltaics. Springer Theses, 2020, 53-63	0.1	
35	Photovoltaics. <i>Springer Theses</i> , <b>2020</b> , 3-20	0.1	
34	Bismuth Chalcoiodides. <i>Springer Theses</i> , <b>2020</b> , 117-138	0.1	
33	Enumeration as a Tool for Structure Solution: A Materials Genomic Approach to Solving the Cation-Ordered Structure of Na3V2(PO4)2F3. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8981-8992	9.6	7

## (2017-2020)

32	Benchmarking materials property prediction methods: the Matbench test set and Automatminer reference algorithm. <i>Npj Computational Materials</i> , <b>2020</b> , 6,	10.9	25
31	High Thermoelectric Performance and Defect Energetics of Multipocketed Full Heusler Compounds. <i>Physical Review Applied</i> , <b>2020</b> , 14,	4.3	6
30	Perspectives and Design Principles of Vacancy-Ordered Double Perovskite Halide Semiconductors. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 1184-1195	9.6	89
29	Two-dimensional eclipsed arrangement hybrid perovskites for tunable energy level alignments and photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5139-5147	7.1	14
28	Influence of One Specific CarbonCarbon Bond on the Quality, Stability, and Photovoltaic Performance of Hybrid OrganicChorganic Bismuth Iodide Materials. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 1579-1587	6.1	4
27	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 13867-13876	16.4	55
26	Robocrystallographer: automated crystal structure text descriptions and analysis. <i>MRS Communications</i> , <b>2019</b> , 9, 874-881	2.7	11
25	Anion Distribution, Structural Distortion, and Symmetry-Driven Optical Band Gap Bowing in Mixed Halide CsSnX Vacancy Ordered Double Perovskites. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 9430-9444	9.6	32
24	Insights into the electronic structure of OsO2 using soft and hard x-ray photoelectron spectroscopy in combination with density functional theory. <i>Physical Review Materials</i> , <b>2019</b> , 3,	3.2	7
23	Local corrugation and persistent charge density wave in ZrTe3 with Ni intercalation. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	12
22	First-principles insights into tin-based two-dimensional hybrid halide perovskites for photovoltaics. Journal of Materials Chemistry A, <b>2018</b> , 6, 5652-5660	13	50
21	sumo: Command-line tools for plotting and analysis of periodic ab initio calculations. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 717	5.2	127
20	Galore: Broadening and weighting for simulation of photoelectron spectroscopy. <i>Journal of Open Source Software</i> , <b>2018</b> , 3, 773	5.2	25
19	Anharmonicity and Octahedral Tilting in Hybrid Vacancy-Ordered Double Perovskites. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 472-483	9.6	70
18	Correlated Polyhedral Rotations in the Absence of Polarons during Electrochemical Insertion of Lithium in ReO3. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 2513-2519	20.1	23
17	Tolerance Factor and Cooperative Tilting Effects in Vacancy-Ordered Double Perovskite Halides. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3909-3919	9.6	63
16	Defect Engineering of Earth-Abundant Solar Absorbers BiSI and BiSeI. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3827-3835	9.6	39
15	Exploring the PbS <b>B</b> i2S3 Series for Next Generation Energy Conversion Materials. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 5156-5167	9.6	24

14	Electroactive Nanoporous Metal Oxides and Chalcogenides by Chemical Design. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 3663-3670	9.6	6
13	Electronic and defect properties of (CH3NH3)2Pb(SCN)2I2 analogues for photovoltaic applications. Journal of Materials Chemistry A, <b>2017</b> , 5, 7845-7853	13	37
12	Narrow-band anisotropic electronic structure of ReS2. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	33
11	Stability of the M2 phase of vanadium dioxide induced by coherent epitaxial strain. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	51
10	An assessment of silver copper sulfides for photovoltaic applications: theoretical and experimental insights. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 12648-12657	13	32
9	Probing the chemical structure of monolayer covalent-organic frameworks grown via Schiff-base condensation reactions. <i>Chemical Communications</i> , <b>2016</b> , 52, 9941-4	5.8	53
8	Defect Tolerance to Intolerance in the Vacancy-Ordered Double Perovskite Semiconductors Cs2SnI6 and Cs2TeI6. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 8453-64	16.4	264
7	Relativistic electronic structure and band alignment of BiSI and BiSeI: candidate photovoltaic materials. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 2060-2068	13	97
6	Band gap and work function tailoring of SnO2 for improved transparent conducting ability in photovoltaics. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 1467-1475	7.1	141
5	Interplay of Orbital and Relativistic Effects in Bismuth Oxyhalides: BiOF, BiOCl, BiOBr, and BiOI. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 1980-1984	9.6	225
4	Hybrid Organic-Inorganic Coordination Complexes as Tunable Optical Response Materials. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 3393-400	5.1	23
3	Beyond methylammonium lead iodide: prospects for the emergent field of ns containing solar absorbers. <i>Chemical Communications</i> , <b>2016</b> , 53, 20-44	5.8	280
2	(CH3NH3)2Pb(SCN)2I2: a more stable structural motif for hybrid halide photovoltaics?. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 4594-8	6.4	100
1	Antiferromagnetism at T>500K in the layered hexagonal ruthenate SrRu2O6. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	38