Maximilian Amsler

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.

2,327 26 47 g-index

72 2,712 5.8 5.17 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
68	Oxygen Evolution Reaction Activity of Sr2Ta2O7 and Sr2Nb2O7 Surfaces. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 6556-6563	3.8	1
67	Thermal conductivity of CaF2 at high pressure. <i>Physical Review B</i> , 2021 , 103,	3.3	2
66	The 2021 Room-Temperature Superconductivity Roadmap. <i>Journal of Physics Condensed Matter</i> , 2021 ,	1.8	9
65	Autonomous materials synthesis via hierarchical active learning of nonequilibrium phase diagrams <i>Science Advances</i> , 2021 , 7, eabg4930	14.3	3
64	FLAME: A library of atomistic modeling environments. <i>Computer Physics Communications</i> , 2020 , 256, 107415	4.2	13
63	Minima Hopping Method for Predicting Complex Structures and Chemical Reaction Pathways 2020 , 27	'91-281	01
62	Optical Identification of Materials Transformations in Oxide Thin Films. <i>ACS Combinatorial Science</i> , 2020 , 22, 887-894	3.9	3
61	High-temperature conventional superconductivity in the boron-carbon system: Material trends. <i>Physical Review B</i> , 2020 , 102,	3.3	4
60	Evidence for carbon clusters present near thermal gate oxides affecting the electronic band structure in SiC-MOSFET. <i>Applied Physics Letters</i> , 2019 , 115, 101601	3.4	10
59	Surfactant-assisted synthesis of large Cu-BTC MOF single crystals and their potential utilization as photodetectors. <i>CrystEngComm</i> , 2019 , 21, 3948-3953	3.3	8
58	Prediction of Superconductivity in Porous, Covalent Triazine Frameworks 2019 , 1, 30-36		10
57	Thermodynamics and superconductivity of SxSe1⊠H3. <i>Physical Review B</i> , 2019 , 99,	3.3	20
56	Low-Energy Phases of Bi Monolayer Predicted by Structure Search in Two Dimensions. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7324-7332	6.4	8
55	Ternary mixed-anion semiconductors with tunable band gaps from machine-learning and crystal structure prediction. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
54	Minima Hopping Method for Predicting Complex Structures and Chemical Reaction Pathways 2019 , 1-	20	1
53	First-Principles Study of Lithium Cobalt Spinel Oxides: Correlating Structure and Electrochemistry. <i>ACS Applied Materials & Acs Applied & Acs Applied</i>	9.5	19
52	Linear scaling DFT calculations for large tungsten systems using an optimized local basis. <i>Nuclear Materials and Energy</i> , 2018 , 15, 64-70	2.1	19

(2016-2018)

51	Unraveling the structure and bonding evolution of the newly discovered iron oxide FeO2. <i>Physical Review B</i> , 2018 , 98,	3.3	51
50	Crystal structure, energetics, and phase stability of strengthening precipitates in Mg alloys: A first-principles study. <i>Acta Materialia</i> , 2018 , 158, 65-78	8.4	20
49	Designing and Discovering a New Family of Semiconducting Quaternary Heusler Compounds Based on the 18-Electron Rule. <i>Chemistry of Materials</i> , 2018 , 30, 4978-4985	9.6	26
48	Emergence of hidden phases of methylammonium lead iodide (CH3NH3PbI3) upon compression. <i>Physical Review Materials</i> , 2018 , 2,	3.2	7
47	Exploring the High-Pressure Materials Genome. <i>Physical Review X</i> , 2018 , 8,	9.1	9
46	Optimized symmetry functions for machine-learning interatomic potentials of multicomponent systems. <i>Journal of Chemical Physics</i> , 2018 , 149, 124106	3.9	11
45	Creating Binary Cu B i Compounds via High-Pressure Synthesis: A Combined Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2017 , 29, 5276-5285	9.6	34
44	Achieving zT > 1 in Inexpensive Zintl Phase Ca9Zn4+xSb9 by Phase Boundary Mapping. <i>Advanced Functional Materials</i> , 2017 , 27, 1606361	15.6	98
43	High accuracy and transferability of a neural network potential through charge equilibration for calcium fluoride. <i>Physical Review B</i> , 2017 , 95,	3.3	48
42	Prediction of superconducting iron-bismuth intermetallic compounds at high pressure. <i>Chemical Science</i> , 2017 , 8, 2226-2234	9.4	20
41	Cubine, a Quasi Two-Dimensional Copper B ismuth Nanosheet. <i>Chemistry of Materials</i> , 2017 , 29, 9819-98	32§ .6	10
40	High-pressure discovery of ENiBi. <i>Chemical Communications</i> , 2017 , 53, 11241-11244	5.8	10
39	Two-Dimensional Hexagonal Sheet of TiO2. Chemistry of Materials, 2017, 29, 8594-8603	9.6	51
38	Energy landscape of ZnO clusters and low-density polymorphs. <i>Physical Review B</i> , 2017 , 96,	3.3	18
37	Dense superconducting phases of copper-bismuth at high pressure. <i>Physical Review Materials</i> , 2017 , 1,	3.2	6
36	Surface reconstruction of fluorites in vacuum and aqueous environment. <i>Physical Review Materials</i> , 2017 , 1,	3.2	13
35	Novel crystal structures for lithiumBilicon alloy predicted by minima hopping method. <i>Journal of Alloys and Compounds</i> , 2016 , 655, 147-154	5.7	17
34	Superconductivity in metastable phases of phosphorus-hydride compounds under high pressure. <i>Physical Review B</i> , 2016 , 93,	3.3	108

33	Ultralow Thermal Conductivity in Full Heusler Semiconductors. <i>Physical Review Letters</i> , 2016 , 117, 0466	0 2 4	103
32	Discovery of a Superconducting Cu B i Intermetallic Compound by High-Pressure Synthesis. <i>Angewandte Chemie</i> , 2016 , 128, 13644-13647	3.6	11
31	ZnSb Polymorphs with Improved Thermoelectric Properties. <i>Chemistry of Materials</i> , 2016 , 28, 2912-2920	09.6	13
30	A fingerprint based metric for measuring similarities of crystalline structures. <i>Journal of Chemical Physics</i> , 2016 , 144, 034203	3.9	75
29	Discovery of a Superconducting Cu-Bi Intermetallic Compound by High-Pressure Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13446-13449	16.4	37
28	Identification of Novel Cu, Ag, and Au Ternary Oxides from Global Structural Prediction. <i>Chemistry of Materials</i> , 2015 , 27, 4562-4573	9.6	47
27	Materials Design On-the-Fly. <i>Journal of Chemical Theory and Computation</i> , 2015 , 11, 3955-60	6.4	24
26	Novel phases of lithium-aluminum binaries from first-principles structural search. <i>Journal of Chemical Physics</i> , 2015 , 142, 024710	3.9	12
25	Low-density silicon allotropes for photovoltaic applications. <i>Physical Review B</i> , 2015 , 92,	3.3	58
24	Boron aggregation in the ground states of boron-carbon fullerenes. <i>Physical Review B</i> , 2014 , 89,	3.3	9
23	Isomerism and structural fluxionality in the Au26 and Au26(-) nanoclusters. ACS Nano, 2014, 8, 7413-22	16.7	40
22	Minima hopping guided path search: an efficient method for finding complex chemical reaction pathways. <i>Journal of Chemical Physics</i> , 2014 , 140, 214102	3.9	32
21	Comment on "Towards direct-gap silicon phases by the inverse band structure design approach". <i>Physical Review Letters</i> , 2014 , 112, 199801	7.4	2
20	Energetic and vibrational analysis of hydrogenated silicon m vacancies above saturation. <i>Physical Review B</i> , 2014 , 90,	3.3	3
19	First-principles predicted low-energy structures of NaSc(BH4)4. <i>Journal of Chemical Physics</i> , 2014 , 140, 124708	3.9	17
18	Carbon structures and defect planes in diamond at high pressure. <i>Physical Review B</i> , 2013 , 88,	3.3	30
17	Prediction of a novel monoclinic carbon allotrope. European Physical Journal B, 2013, 86, 1	1.2	13
16	Conducting boron sheets formed by the reconstruction of the Đoron (111) surface. <i>Physical Review Letters</i> , 2013 , 111, 136101	7.4	39

LIST OF PUBLICATIONS

15	Comment on "Topological insulators in ternary compounds with a honeycomb lattice". <i>Physical Review Letters</i> , 2013 , 110, 129701	7.4	4
14	Sodiumgold binaries: novel structures for ionic compounds from anab initiostructural search. <i>New Journal of Physics</i> , 2013 , 15, 115007	2.9	36
13	Thermodynamic stability of alkali-metallinc double-cation borohydrides at low temperatures. <i>Physical Review B</i> , 2013 , 88,	3.3	27
12	Low-energy polymeric phases of alanates. <i>Physical Review Letters</i> , 2013 , 110, 135502	7.4	33
11	The crystal structure of p-type transparent conductive oxide CuBO2. MRS Communications, 2013, 3, 15	7-1 <i>5</i> -0	10
10	Low-energy structures of zinc borohydride Zn(BH4)2. <i>Physical Review B</i> , 2012 , 86,	3.3	26
9	Low-energy silicon allotropes with strong absorption in the visible for photovoltaic applications. <i>Physical Review B</i> , 2012 , 86,	3.3	116
8	High-pressure structures of disilane and their superconducting properties. <i>Physical Review Letters</i> , 2012 , 108, 117004	7.4	80
7	Raman activity of sp3 carbon allotropes under pressure: A density functional theory study. <i>Physical Review B</i> , 2012 , 85,	3.3	25
6	Novel structural motifs in low energy phases of LiAlH4. <i>Physical Review Letters</i> , 2012 , 108, 205505	7.4	42
5	Crystal structure of cold compressed graphite. <i>Physical Review Letters</i> , 2012 , 108, 065501	7.4	265
4	Energy landscape of fullerene materials: a comparison of boron to boron nitride and carbon. <i>Physical Review Letters</i> , 2011 , 106, 225502	7.4	152
3	Energy landscape of silicon systems and its description by force fields, tight binding schemes, density functional methods, and quantum Monte Carlo methods. <i>Physical Review B</i> , 2010 , 81,	3.3	27
2	Crystal structure prediction using the minima hopping method. <i>Journal of Chemical Physics</i> , 2010 , 133, 224104	3.9	215
1	Adsorption of small NaCl clusters on surfaces of silicon nanostructures. <i>Nanotechnology</i> , 2009 , 20, 445.	30;14	11