## Xin Zhao

## List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/4110020/xin-zhao-publications-by-year.pdf

Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

53	877	16	28
papers	citations	h-index	g-index
56	1,048 ext. citations	4.8	3.94
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
53	Lithium nickel borides: evolution of [NiB] layers driven by Li pressure. <i>Inorganic Chemistry Frontiers</i> , <b>2021</b> , 8, 1675-1685	6.8	3
52	Stabilizing the crystal structures of NaFePO with Li substitutions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13975-13980	3.6	2
51	Coherent band-edge oscillations and dynamic longitudinal-optical phonon mode splitting as evidence for polarons in perovskites. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	13
50	Theoretical search for possible Li <b>NiB</b> crystal structures using an adaptive genetic algorithm. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 094902	2.5	5
49	Light control of surface <b>B</b> ulk coupling by terahertz vibrational coherence in a topological insulator. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	23
48	Discovering rare-earth-free magnetic materials through the development of a database. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	2
47	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials <b>2020</b> , 2757	-2776	
46	Ultrafast Control of Excitonic Rashba Fine Structure by Phonon Coherence in the Metal Halide Perovskite CH_{3}NH_{3}PbI_{3}. <i>Physical Review Letters</i> , <b>2020</b> , 124, 157401	7.4	16
45	Ultrafast nonthermal terahertz electrodynamics and possible quantum energy transfer in the Nb3Sn superconductor. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	15
44	Ultrafast manipulation of topologically enhanced surface transport driven by mid-infrared and terahertz pulses in BiSe. <i>Nature Communications</i> , <b>2019</b> , 10, 607	17.4	46
43	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16002-16009	3.6	3
42	First-principles calculation of correlated electron materials based on Gutzwiller wave function beyond Gutzwiller approximation. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 335601	1.8	4
41	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 15855-15862	16.4	13
40	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials <b>2019</b> , 1-20		
39	Correlation matrix renormalization theory for correlated-electron materials with application to the crystalline phases of atomic hydrogen. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	2
38	Ternary Bismuthide SrPtBi2: Computation and Experiment in Synergism to Explore Solid-State Materials. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 5057-5063	3.8	2
37	New structures of Fe3S for rare-earth-free permanent magnets. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 075001	3	2

## (2016-2018)

36	Fe-Si networks and charge/discharge-induced phase transitions in LiFeSiO cathode materials. <i>Physical Chemistry Chemical Physics</i> , <b>2018</b> , 20, 14557-14563	3.6	11
35	Spatially-correlated site occupancy in the nonstoichiometric meta-stable EAl60Sm11 phase during devitrification of Al-10.2 at.% Sm glasses. <i>Acta Materialia</i> , <b>2018</b> , 156, 97-103	8.4	5
34	Structures and magnetic properties of iron silicide from adaptive genetic algorithm and first-principles calculations. <i>Journal of Applied Physics</i> , <b>2018</b> , 124, 073901	2.5	4
33	Magnetism of new metastable cobalt-nitride compounds. <i>Nanoscale</i> , <b>2018</b> , 10, 13011-13021	7.7	20
32	Influence of nitrogen dopants on the magnetization of Co3N clusters. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	5
31	Magnetocrystalline anisotropy in YCo5 and ZrCo5 compounds from first-principles real-space pseudopotentials calculations. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	3
30	Prediction of novel stable Fe-V-Si ternary phase. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 732, 567-572	5.7	2
29	An Efficient Scheme for Crystal Structure Prediction Based on Structural Motifs. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11891-11896	3.8	5
28	Exploring new phases of Fe3\(\text{\textsupers}\)CoxC for rare-earth-free magnets. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 215005	3	6
27	Ultrafast terahertz snapshots of excitonic Rydberg states and electronic coherence in an organometal halide perovskite. <i>Nature Communications</i> , <b>2017</b> , 8, 15565	17.4	50
26	A scheme for the generation of Fe <b>P</b> networks to search for low-energy LiFePO4 crystal structures. Journal of Materials Chemistry A, <b>2017</b> , 5, 14611-14618	13	9
25	Structures, phase transitions, and magnetic properties of Co3Si from first-principles calculations. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6
24	Fe-Cluster Compounds of Chalcogenides: Candidates for Rare-Earth-Free Permanent Magnet and Magnetic Nodal-Line Topological Material. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 14577-14583	5.1	3
23	Theoretical search for possible Au-Si crystal structures using a genetic algorithm. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
22	Metastable cobalt nitride structures with high magnetic anisotropy for rare-earth free magnets. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 31680-31690	3.6	23
21	Zero-Strain Na2FeSiO4 as Novel Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials</i> & Samp; Interfaces, <b>2016</b> , 8, 17233-8	9.5	80
20	Large magnetic anisotropy predicted for rare-earth-free Fe16⊠CoxN2 alloys. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	31
19	Robust diamond-like Fe-Si network in the zero-strain Na FeSiO4 cathode. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 934-940	6.7	27

18	Fe-Si networks in Na2FeSiO4 cathode materials. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23916-22	2 3.6	23
17	Cluster expansion modeling and Monte Carlo simulation of alnico 511 permanent magnets. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 093905	2.5	5
16	Electronic structure of Ce2RhIn8: A two-dimensional heavy-fermion system studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
15	Exploration of tetrahedral structures in silicate cathodes using a motif-network scheme. <i>Scientific Reports</i> , <b>2015</b> , 5, 15555	4.9	24
14	Structures and magnetic properties of Co-Zr-B magnets studied by first-principles calculations. Journal of Applied Physics, <b>2015</b> , 117, 243902	2.5	12
13	First-principles study of direct and narrow band gap semiconductingECuGaO2. <i>Materials Research Express</i> , <b>2015</b> , 2, 045902	1.7	9
12	Orthorhombic Zr2Co11 phase revisited. Journal of Alloys and Compounds, 2014, 611, 167-170	5.7	5
11	sp3-hybridized framework structure of group-14 elements discovered by genetic algorithm. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	20
10	An adaptive genetic algorithm for crystal structure prediction. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 035402	1.8	75
9	New Be-intercalated hexagonal boron layer structure of BeB2. <i>RSC Advances</i> , <b>2014</b> , 4, 15061-15065	3.7	2
8	Interface Structure Prediction from First-Principles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9524-953	<b>39</b> .8	28
7	Exploring the structural complexity of intermetallic compounds by an adaptive genetic algorithm. <i>Physical Review Letters</i> , <b>2014</b> , 112, 045502	7.4	78
6	New stable Re-B phases for ultra-hard materials. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 455401	1.8	5
5	Genetic algorithm prediction of crystal structure of metastable Si-IX phase. <i>Solid State Communications</i> , <b>2014</b> , 182, 14-16	1.6	6
4	New layered structures of cuprous chalcogenides as thin film solar cell materials: Cu2Te and Cu2Se. <i>Physical Review Letters</i> , <b>2013</b> , 111, 165502	7.4	88
3	Atomic Structure and Magnetic Properties of HfCo\$_{7}\$ Alloy. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3281-3283	2	6
2	Structures and stabilities of alkaline earth metal peroxides XO2 (X = Ca, Be, Mg) studied by a genetic algorithm. <i>RSC Advances</i> , <b>2013</b> , 3, 22135	3.7	16
1	Atomic structure and magnetic properties of Fe1\(\mathbb{R}\)Cox alloys. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E3	3 <b>3</b> 85	18