

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.

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

#	Paper	IF	Citations
53	New layered structures of cuprous chalcogenides as thin film solar cell materials: Cu <sub>2</sub> Te and Cu <sub>2</sub> Se. <i>Physical Review Letters</i> , <b>2013</b> , 111, 165502	7.4	88
52	Zero-Strain Na <sub>2</sub> FeSiO <sub>4</sub> as Novel Cathode Material for Sodium-Ion Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 17233-8	9.5	80
51	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
50	An adaptive genetic algorithm for crystal structure prediction. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 035402	1.8	75
49	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
48	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
47	Large magnetic anisotropy predicted for rare-earth-free Fe <sub>16</sub> Co <sub>x</sub> N <sub>2</sub> alloys. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	31
46	Interface Structure Prediction from First-Principles. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 9524-9530	9.8	28
45	Robust diamond-like Fe-Si network in the zero-strain Na FeSiO <sub>4</sub> cathode. <i>Electrochimica Acta</i> , <b>2016</b> , 212, 934-940	6.7	27
44	Exploration of tetrahedral structures in silicate cathodes using a motif-network scheme. <i>Scientific Reports</i> , <b>2015</b> , 5, 15555	4.9	24
43	Light control of surfaceBulk coupling by terahertz vibrational coherence in a topological insulator. <i>Npj Quantum Materials</i> , <b>2020</b> , 5,	5	23
42	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
41	Fe-Si networks in Na <sub>2</sub> FeSiO <sub>4</sub> cathode materials. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 23916-22	3.6	23
40	Magnetism of new metastable cobalt-nitride compounds. <i>Nanoscale</i> , <b>2018</b> , 10, 13011-13021	7.7	20
39	sp <sup>3</sup> -hybridized framework structure of group-14 elements discovered by genetic algorithm. <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	20
38	Atomic structure and magnetic properties of Fe <sub>1-x</sub> Co <sub>x</sub> alloys. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 07E338	3.5	18
37	Structures and stabilities of alkaline earth metal peroxides XO <sub>2</sub> (X = Ca, Be, Mg) studied by a genetic algorithm. <i>RSC Advances</i> , <b>2013</b> , 3, 22135	3.7	16

36	Ultrafast Control of Excitonic Rashba Fine Structure by Phonon Coherence in the Metal Halide Perovskite CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> . <i>Physical Review Letters</i> , <b>2020</b> , 124, 157401	7.4	16
35	Ultrafast nonthermal terahertz electrodynamics and possible quantum energy transfer in the Nb <sub>3</sub> Sn superconductor. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	15
34	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
33	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
32	Structures and magnetic properties of Co-Zr-B magnets studied by first-principles calculations. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 243902	2.5	12
31	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
30	A scheme for the generation of FeB networks to search for low-energy LiFePO <sub>4</sub> crystal structures. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 14611-14618	13	9
29	Electronic structure of Ce <sub>2</sub> RhIn <sub>8</sub> : A two-dimensional heavy-fermion system studied by angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	9
28	First-principles study of direct and narrow band gap semiconducting CuGaO <sub>2</sub> . <i>Materials Research Express</i> , <b>2015</b> , 2, 045902	1.7	9
27	Theoretical search for possible Au-Si crystal structures using a genetic algorithm. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	7
26	Exploring new phases of Fe <sub>3</sub> CoC for rare-earth-free magnets. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 215005	3	6
25	Atomic Structure and Magnetic Properties of HfCo <sub>7</sub> Alloy. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 3281-3283	2	6
24	Structures, phase transitions, and magnetic properties of Co <sub>3</sub> Si from first-principles calculations. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	6
23	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
22	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
21	Cluster expansion modeling and Monte Carlo simulation of alnico 5 permanent magnets. <i>Journal of Applied Physics</i> , <b>2015</b> , 117, 093905	2.5	5
20	Theoretical search for possible LiNiB crystal structures using an adaptive genetic algorithm. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 094902	2.5	5
19	Spatially-correlated site occupancy in the nonstoichiometric meta-stable Al <sub>60</sub> Sm <sub>11</sub> phase during devitrification of Al-10.2 at.% Sm glasses. <i>Acta Materialia</i> , <b>2018</b> , 156, 97-103	8.4	5

18	Orthorhombic Zr <sub>2</sub> Co <sub>11</sub> phase revisited. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 611, 167-170	5.7	5
17	New stable Re-B phases for ultra-hard materials. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 455401	1.8	5
16	Influence of nitrogen dopants on the magnetization of Co <sub>3</sub> N clusters. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	5
15	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
14	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
13	Computationally Driven Discovery of a Family of Layered LiNiB Polymorphs. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 16002-16009	3.6	3
12	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
11	Magnetocrystalline anisotropy in YCo <sub>5</sub> and ZrCo <sub>5</sub> compounds from first-principles real-space pseudopotentials calculations. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	3
10	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
9	Stabilizing the crystal structures of NaFePO with Li substitutions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 13975-13980	3.6	2
8	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
7	Ternary Bismuthide SrPtBi <sub>2</sub> : 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
6	New structures of Fe <sub>3</sub> S for rare-earth-free permanent magnets. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 075001	3	2
5	New Be-intercalated hexagonal boron layer structure of BeB <sub>2</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 15061-15065	3.7	2
4	Discovering rare-earth-free magnetic materials through the development of a database. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	2
3	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
2	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials <b>2020</b> , 2757-2776		
1	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials <b>2019</b> , 1-20		

