

Manh Cuong Nguyen

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.

55
papers

1,161
citations

18
h-index

33
g-index

57
ext. papers

1,436
ext. citations

4
avg, IF

4.3
L-index

#	Paper	IF	Citations
55	Spatial decomposition of magnetic anisotropy in magnets: Application to doped Fe ₁₆ N ₂ . <i>Physical Review B</i> , 2020 , 102,	3.3	3
54	Thermophysical and mechanical properties of novel high-entropy metal nitride-carbides. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 6475-6489	3.8	17
53	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials 2020 , 2757-2776		
52	Concentration-tuned tetragonal strain in alloys: Application to magnetic anisotropy of FeNi _{1-x} Cox. <i>Physical Review B</i> , 2019 , 100,	3.3	5
51	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo ₅ Systems. <i>Physical Review Applied</i> , 2019 , 11,	4.3	9
50	Quantum phase transition and ferromagnetism in Co _{1+x} Sn. <i>Physical Review B</i> , 2019 , 99,	3.3	4
49	First-principles study, fabrication and characterization of (Zr _{0.25} Nb _{0.25} Ti _{0.25} V _{0.25})C high-entropy ceramics. <i>Acta Materialia</i> , 2019 , 170, 15-23	8.4	127
48	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials 2019 , 1-20		
47	Magnetocrystalline anisotropy in cobalt based magnets: a choice of correlation parameters and the relativistic effects. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 195801	1.8	14
46	New structures of Fe ₃ S for rare-earth-free permanent magnets. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 075001	3	2
45	Fe-Si networks and charge/discharge-induced phase transitions in LiFeSiO cathode materials. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 14557-14563	3.6	11
44	Using first-principles calculations to screen for fragile magnetism: Case study of LaCrGe ₃ and LaCrSb ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	3
43	Structures and magnetic properties of iron silicide from adaptive genetic algorithm and first-principles calculations. <i>Journal of Applied Physics</i> , 2018 , 124, 073901	2.5	4
42	Magnetocrystalline anisotropy in YCo ₅ and ZrCo ₅ compounds from first-principles real-space pseudopotentials calculations. <i>Physical Review Materials</i> , 2018 , 2,	3.2	3
41	Prediction of novel stable Fe-V-Si ternary phase. <i>Journal of Alloys and Compounds</i> , 2018 , 732, 567-572	5.7	2
40	Electronic structure, optical and magnetic studies of PLD-grown (Mn, P)-doped ZnO nanocolumns at room temperature. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 295002	3	2
39	A scheme for the generation of Fe ₃ networks to search for low-energy LiFePO ₄ crystal structures. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14611-14618	13	9

38	Role of Surface Stress on the Reactivity of Anatase TiO(001). <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 1764-1771	6.4	29
37	Growth and characterization of BaZnGa. <i>Philosophical Magazine</i> , 2017 , 97, 3317-3324	1.6	
36	Structures of defects on anatase TiO(001) surfaces. <i>Nanoscale</i> , 2017 , 9, 11553-11565	7.7	17
35	Structures, phase transitions, and magnetic properties of Co ₃ Si from first-principles calculations. <i>Physical Review B</i> , 2017 , 96,	3.3	6
34	Elastic and electronic tuning of magnetoresistance in MoTe. <i>Science Advances</i> , 2017 , 3, eaao4949	14.3	30
33	Cluster-Expansion Model for Complex Quinary Alloys: Application to Alnico Permanent Magnets. <i>Physical Review Applied</i> , 2017 , 8,	4.3	6
32	Crystal structure and magnetic properties of new Fe ₃ Co ₃ X ₂ (X = Ti, Nb) intermetallic compounds. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 175002	3	4
31	Stabilities and defect-mediated lithium-ion conduction in a ground state cubic Li ₃ N structure. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4185-90	3.6	4
30	Structure and magnetism of new rare-earth-free intermetallic compounds: Fe _{3+x} Co ₃ Ti ₂ (0 ≤ x ≤ 3). <i>APL Materials</i> , 2016 , 4, 116109	5.7	3
29	Robust diamond-like Fe-Si network in the zero-strain Na FeSiO ₄ cathode. <i>Electrochimica Acta</i> , 2016 , 212, 934-940	6.7	27
28	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in LaCrGe ₃ under Pressure. <i>Physical Review Letters</i> , 2016 , 117, 037207	7.4	23
27	Development of interatomic potentials appropriate for simulation of devitrification of Al ₉₀ Sm ₁₀ alloy. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2015 , 23, 045013	2	43
26	Cluster expansion modeling and Monte Carlo simulation of alnico 5 permanent magnets. <i>Journal of Applied Physics</i> , 2015 , 117, 093905	2.5	5
25	Exploration of tetrahedral structures in silicate cathodes using a motif-network scheme. <i>Scientific Reports</i> , 2015 , 5, 15555	4.9	24
24	Structures and magnetic properties of Co-Zr-B magnets studied by first-principles calculations. <i>Journal of Applied Physics</i> , 2015 , 117, 243902	2.5	12
23	First-principles study of direct and narrow band gap semiconducting CuGaO ₂ . <i>Materials Research Express</i> , 2015 , 2, 045902	1.7	9
22	Fluctuation Hall Conductivity Beyond Linear Response in Layered Superconductors Under a Magnetic Field. <i>Journal of Superconductivity and Novel Magnetism</i> , 2014 , 27, 359-363	1.5	
21	Orthorhombic Zr ₂ Co ₁₁ phase revisited. <i>Journal of Alloys and Compounds</i> , 2014 , 611, 167-170	5.7	5

20	sp ³ -hybridized framework structure of group-14 elements discovered by genetic algorithm. <i>Physical Review B</i> , 2014 , 89,	3.3	20
19	An adaptive genetic algorithm for crystal structure prediction. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 035402	1.8	75
18	New Be-intercalated hexagonal boron layer structure of BeB ₂ . <i>RSC Advances</i> , 2014 , 4, 15061-15065	3.7	2
17	Interface Structure Prediction from First-Principles. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 9524-9530	3.8	28
16	Exploring the structural complexity of intermetallic compounds by an adaptive genetic algorithm. <i>Physical Review Letters</i> , 2014 , 112, 045502	7.4	78
15	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. <i>Scientific Reports</i> , 2014 , 4, 6367	4.9	160
14	New stable Re-B phases for ultra-hard materials. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 455401	1.8	5
13	Genetic algorithm prediction of crystal structure of metastable Si-IX phase. <i>Solid State Communications</i> , 2014 , 182, 14-16	1.6	6
12	New layered structures of cuprous chalcogenides as thin film solar cell materials: Cu ₂ Te and Cu ₂ Se. <i>Physical Review Letters</i> , 2013 , 111, 165502	7.4	88
11	Atomic Structure and Magnetic Properties of HfCo ₇ Alloy. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 3281-3283	2	6
10	Structures and stabilities of alkaline earth metal peroxides XO ₂ (X = Ca, Be, Mg) studied by a genetic algorithm. <i>RSC Advances</i> , 2013 , 3, 22135	3.7	16
9	Atomic structure and magnetic properties of Fe _{1-x} Co _x alloys. <i>Journal of Applied Physics</i> , 2012 , 111, 07E338	3.5	18
8	Calcium-decorated, hydroxylated single-walled carbon nanotubes for hydrogen storage: a first-principles study. <i>ChemPhysChem</i> , 2011 , 12, 777-80	3.2	4
7	SIMULTANEOUS DESCRIPTION OF STRONG AND WEAK H ₂ ADSORPTION SITES COEXISTING IN MOFs. <i>Nano</i> , 2011 , 06, 225-229	1.1	4
6	Iron-Decorated, Functionalized Metal Organic Framework for High-Capacity Hydrogen Storage: First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14276-14280	3.8	25
5	Hydrogen storage in Ca-decorated, B-substituted metal organic framework. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 198-203	6.7	34
4	Calcium-hydroxyl group complex for potential hydrogen storage media: A density functional theory study. <i>Physical Review B</i> , 2009 , 79,	3.3	7
3	Titanium-functional group complexes for high-capacity hydrogen storage materials. <i>Solid State Communications</i> , 2008 , 146, 431-434	1.6	27

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| 2 | Hydrogen storage using functionalized saturated hydrocarbons. <i>Solid State Communications</i> , 2008 , 147, 419-422 | 1.6 | 13 |
| 1 | Ab initio study of dihydrogen binding in metal-decorated polyacetylene for hydrogen storage. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 83 |