

Manh Cuong Nguyen

List of Publications by Year in descending order

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56
papers

1,704
citations

361045

20
h-index

288905

40
g-index

57
all docs

57
docs citations

57
times ranked

2401
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	3.8	294
2	On-the-fly machine-learning for high-throughput experiments: search for rare-earth-free permanent magnets. <i>Scientific Reports</i> , 2014, 4, 6367.	1.6	212
3	An adaptive genetic algorithm for crystal structure prediction. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 035402.	0.7	120
4	<i>Ab initio</i> study of dihydrogen binding in metal-decorated polyacetylene for hydrogen storage. <i>Physical Review B</i> , 2007, 76, .	1.1	104
5	<i>New Layered Structures of Cuprous Chalcogenides as Thin Film Solar Cell Materials:</i> Cu_2Te and Cu_2Se . <i>Physical Review Letters</i> , 2013, 111, 165502.	2.9	103
6	Exploring the Structural Complexity of Intermetallic Compounds by an Adaptive Genetic Algorithm. <i>Physical Review Letters</i> , 2014, 112, 045502.	2.9	97
7	Thermophysical and mechanical properties of novel high-entropy metal nitride-carbides. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6475-6489.	1.9	66
8	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.	0.8	61
9	Ferromagnetic Quantum Critical Point Avoided by the Appearance of Another Magnetic Phase in LaCrGe . <i>Physical Review Letters</i> , 2016, 117, 037207.	2.9	47
10	Elastic and electronic tuning of magnetoresistance in MoTe ₂ . <i>Science Advances</i> , 2017, 3, eaao4949.	4.7	42
11	Interface Structure Prediction from First-Principles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9524-9530.	1.5	39
12	Role of Surface Stress on the Reactivity of Anatase TiO ₂ (001). <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1764-1771.	2.1	39
13	Hydrogen storage in Ca-decorated, B-substituted metal organic framework. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 198-203.	3.8	38
14	Titanium-functional group complexes for high-capacity hydrogen storage materials. <i>Solid State Communications</i> , 2008, 146, 431-434.	0.9	30
15	Robust diamond-like Fe-Si network in the zero-strain Na FeSiO ₄ cathode. <i>Electrochimica Acta</i> , 2016, 212, 934-940.	2.6	30
16	Structures of defects on anatase TiO ₂ (001) surfaces. <i>Nanoscale</i> , 2017, 9, 11553-11565.	2.8	28
17	Exploration of tetrahedral structures in silicate cathodes using a motif-network scheme. <i>Scientific Reports</i> , 2015, 5, 15555.	1.6	27
18	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.	1.5	26

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19	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi mathvariant="italic"} \rangle \text{sp} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 3 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ -hybridized framework structure of group-14 elements discovered by genetic algorithm. Physical Review B, 2014, 89, .	1.1	23
20	Magnetocrystalline anisotropy in cobalt based magnets: a choice of correlation parameters and the relativistic effects. Journal of Physics Condensed Matter, 2018, 30, 195801.	0.7	21
21	Structures and stabilities of alkaline earth metal peroxides XO_2 ($\text{X} = \text{Ca, Be, Mg}$) studied by a genetic algorithm. RSC Advances, 2013, 3, 22135.	1.7	20
22	Atomic structure and magnetic properties of $\text{Fe}_{1-x}\text{Co}_x$ alloys. Journal of Applied Physics, 2012, 111, 07E338.	1.1	19
23	Structures and magnetic properties of Co-Zr-B magnets studied by first-principles calculations. Journal of Applied Physics, 2015, 117, .	1.1	15
24	Single-Crystal Permanent Magnets: Extraordinary Magnetic Behavior in the Ta-, Cu-, and Fe-Substituted CeCo_5 Systems. Physical Review Applied, 2019, 11, .	1.5	15
25	Hydrogen storage using functionalized saturated hydrocarbons. Solid State Communications, 2008, 147, 419-422.	0.9	14
26	Fe-Si networks and charge/discharge-induced phase transitions in $\text{Li}_{2-x}\text{FeSiO}_4$ cathode materials. Physical Chemistry Chemical Physics, 2018, 20, 14557-14563.	1.3	12
27	Crystal structure and magnetic properties of new $\text{Fe}_3\text{Co}_3\text{X}_2$ ($\text{X} = \text{Ti, Nb}$) intermetallic compounds. Journal Physics D: Applied Physics, 2016, 49, 175002.		11
28	First-principles study of direct and narrow band gap semiconducting $\text{In}_2\text{-CuGaO}_2$. Materials Research Express, 2015, 2, 045902.	0.8	9
29	A scheme for the generation of Fe-P networks to search for low-energy LiFePO_4 crystal structures. Journal of Materials Chemistry A, 2017, 5, 14611-14618.	5.2	9
30	Concentration-tuned tetragonal strain in alloys: Application to magnetic anisotropy of FeNi . Physical Review B, 2019, 100, .		10
31	Structure and magnetism of new rare-earth-free intermetallic compounds: $\text{Fe}_{3+x}\text{Co}_3\text{Ti}_2$ ($0 \leq x \leq 3$). APL Materials, 2016, 4, .	2.2	8
32	Structures, phase transitions, and magnetic properties of Co_3Si from first-principles calculations. Physical Review B, 2017, 96, .	1.1	8
33	Spatial decomposition of magnetic anisotropy in magnets: Application to doped Fe_{16}N_2 . Physical Review B, 2020, 102, .	1.1	8
34	Calcium-hydroxyl group complex for potential hydrogen storage media: A density functional theory study. Physical Review B, 2009, 79, .	1.1	7
35	Genetic algorithm prediction of crystal structure of metastable Si-IX phase. Solid State Communications, 2014, 182, 14-16.	0.9	7
36	Cluster expansion modeling and Monte Carlo simulation of alnico 5 permanent magnets. Journal of Applied Physics, 2015, 117, .	1.1	7

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37	Cluster-Expansion Model for Complex Quinary Alloys: Application to Alnico Permanent Magnets. <i>Physical Review Applied</i> , 2017, 8, .	1.5	7
38	Atomic Structure and Magnetic Properties of HfCo ₇ Alloy. <i>IEEE Transactions on Magnetism</i> , 2013, 49, 3281-3283.	1.2	6
39	New stable ReB phases for ultra-hard materials. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 455401.	0.7	6
40	Orthorhombic Zr ₂ Co ₁₁ phase revisited. <i>Journal of Alloys and Compounds</i> , 2014, 611, 167-170.	2.8	6
41	Using first-principles calculations to screen for fragile magnetism: Case study of LaCrGe and LaCrSb . <i>Physical Review B</i> , 2018, 97, .	1.1	6
42	Structures and magnetic properties of iron silicide from adaptive genetic algorithm and first-principles calculations. <i>Journal of Applied Physics</i> , 2018, 124, .	1.1	6
43	Calcium-Decorated, Hydroxylated Single-Walled Carbon Nanotubes for Hydrogen Storage: A First-Principles Study. <i>ChemPhysChem</i> , 2011, 12, 777-780.	1.0	5
44	SIMULTANEOUS DESCRIPTION OF STRONG AND WEAK ADSORPTION SITES COEXISTING IN MOFs. <i>Nano</i> , 2011, 06, 225-229.	0.5	5
45	New Be-intercalated hexagonal boron layer structure of BeB ₂ . <i>RSC Advances</i> , 2014, 4, 15061-15065.	1.7	5
46	Stabilities and defect-mediated lithium-ion conduction in a ground state cubic Li ₃ N structure. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4185-4190.	1.3	5
47	New structures of Fe ₃ S for rare-earth-free permanent magnets. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 075001.	1.3	4
48	Prediction of novel stable Fe-V-Si ternary phase. <i>Journal of Alloys and Compounds</i> , 2018, 732, 567-572.	2.8	4
49	Quantum phase transition and ferromagnetism in C . <i>Physical Review B</i> , 2018, 97, .	1.1	4
50	Magnetocrystalline anisotropy in YCo_5 and ZrCo_5 compounds from first-principles real-space pseudopotentials calculations. <i>Physical Review Materials</i> , 2018, 2, .	0.9	4
51	Evidence for a large Rashba splitting in PtPb ₄ from angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2021, 103, .	1.1	3
52	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.	1.3	2
53	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials. , 2019, , 1-20.		1
54	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.	0.8	0

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55	Growth and characterization of BaZnGa. Philosophical Magazine, 2017, 97, 3317-3324.	0.7	0
56	Adaptive Genetic Algorithm for Structure Prediction and Application to Magnetic Materials. , 2020, , 2757-2776.		0