Jinliang Ning

List of Publications by Year
in descending order

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25 papers	729 citations	758635 12 h-index	580395 25 g-index
27 all docs	27 docs citations	27 times ranked	490 citing authors

#	Article	IF	Citations
1	Construction of meta-GGA functionals through restoration of exact constraint adherence to regularized SCAN functionals. Journal of Chemical Physics, 2022, 156, 034109.	1.2	25
2	Sensitivity of the electronic and magnetic structures of cuprate superconductors to density functional approximations. Npj Computational Materials, 2022, 8, .	3.5	12
3	Reliable Lattice Dynamics from an Efficient Density Functional Approximation. Chemistry of Materials, 2022, 34, 2562-2568.	3.2	12
4	Egyptian blue: from pigment to battery electrodes. RSC Advances, 2021, 11, 19885-19889.	1.7	3
5	r2SCAN-D4: Dispersion corrected meta-generalized gradient approximation for general chemical applications. Journal of Chemical Physics, 2021, 154, 061101.	1.2	70
6	Decoding defect ordering from ADF-STEM images of van der Waals CrGa2Te7 ferromagnetic crystals using the unsupervised machine learning algorithm. Microscopy and Microanalysis, 2021, 27, 710-711.	0.2	0
7	Comparative first-principles study of elastic constants of covalent and ionic materials with LDA, GGA, and meta-GGA functionals and the prediction of mechanical hardness. Science China Technological Sciences, 2021, 64, 2755-2761.	2.0	3
8	Composition-induced type I and direct bandgap transition metal dichalcogenides alloy vertical heterojunctions. Nanoscale, 2020, 12, 201-209.	2.8	15
9	Subtle metastability of the layered magnetic topological insulator MnBi2Te4 from weak interactions. Npj Computational Materials, 2020, 6, .	3.5	8
10	Accurate and Numerically Efficient r²SCAN Meta-Generalized Gradient Approximation. Journal of Physical Chemistry Letters, 2020, 11, 8208-8215.	2.1	335
11	High yield production of ultrathin fibroid semiconducting nanowire of Ta2Pd3Se8. Nano Research, 2020, 13, 1627-1635.	5.8	16
12	Examining the order-of-limits problem and lattice constant performance of the Taoâ€“Mo functional. Journal of Chemical Physics, 2020, 152, 244112.	1.2	11
13	Tunable catalytic activity of cobalt-intercalated layered MnO2 for water oxidation through confinement and local ordering. Journal of Catalysis, 2019, 374, 143-149.	3.1	13
14	Structural, elastic and anisotropic properties of CuZr from first-principles calculations. Materials Chemistry and Physics, 2018, 203, 166-172.	2.0	5
15	Origin of distinct hydrogen absorption behavior of Zr2Pd and ZrPd2. International Journal of Hydrogen Energy, 2016, 41, 1736-1743.	3.8	4
16	Distinct electron density topologies and elastic properties of two similar omega phases: Ï‰-Zr and Zr 2 Al. Journal of Alloys and Compounds, 2016, 660, 316-323.	2.8	5
17	Theoretical prediction of structural stability, electronic and elastic properties of ZrSi₂ under pressure. RSC Advances, 2015, 5, 36779-36786.	1.7	12
18	Mechanical, electronic and thermal properties of Cu5Zr and Cu5Hf by first-principles calculations. Journal of Alloys and Compounds, 2015, 640, 455-461.	2.8	24

#	Article	IF	Citations
19	Effects of Ni and Ti on the phase stability, martensitic transformation and mechanical properties of B2 CuZr phase. Computational Materials Science, 2015, 110, 121-125.	1.4	14
20	Anisotropy in elasticity and thermodynamic properties of zirconium tetraboride under high pressure. RSC Advances, 2015, 5, 77399-77406.	1.7	10
21	Phase competition mediated by composition and pressure in Zr2Cu1â^'Ni system. Journal of Alloys and Compounds, 2015, 618, 73-77.	2.8	5
22	First principle study of elastic and thermodynamic properties of ZrZn2 and HfZn2 under high pressure. Journal of Applied Physics, 2014, 115, .	1.1	17
23	Structural, elastic, electronic, and thermodynamic properties of intermetallic Zr2Cu: A first-principles study. Intermetallics, 2014, 54, 7-14.	1.8	14
24	Pressure-induced pseudoatom bonding collapse and isosymmetric phase transition in Zr2Cu: First-principles predictions. Journal of Chemical Physics, 2013, 139, 234504.	1.2	10
25	First principle study of elastic and thermodynamic properties of FeB4 under high pressure. Journal of Applied Physics, 2013, 114, .	1.1	42