Y Bouhadda

List of Publications by Year in descending order

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29 papers	324 citations	933447 10 h-index	839539 18 g-index
30 all docs	30 docs citations	30 times ranked	274 citing authors

#	Article	IF	Citations
1	First principles study and reconsideration of the mechanical and dynamic stability of hydrogen-rich compound cI14-CaH6 high critical temperature superconductor under pressure. Physica C: Superconductivity and Its Applications, 2021, 587, 1353899.	1.2	1
2	Prediction of New Hydrogen Storage Materials: Structural Stability of SrAlH3 from First Principle Calculation. Springer Proceedings in Energy, 2021, , 113-119.	0.3	0
3	A principal component analysis of complex Iridium hydrides XYIrH₆₍ X=K, Na: Y= Ba, Sr, Ca) and Osmium hydrides ZOsH₆ (Z= Ba, Sr, Ca, Mg). , 2021, , .		0
4	Dependence of NiTi hydride stability by co-substitution by (Zr,Mg) onto Ti and (Cr,Cu) onto Ni: first-principles study. Philosophical Magazine, 2020, 100, 2458-2476.	1.6	0
5	Effect of SrAl2H2 on the Stability of MgH2 for Hydrogen Storage Application. Springer Proceedings in Energy, 2020, , 219-224.	0.3	0
6	Hydrogen Storage for Mobile Applications: First-Principles Study of SrAlH3. Springer Proceedings in Energy, 2020, , 231-237.	0.3	0
7	Theoretical prediction of the structural, elastic, electronic, and thermodynamic properties of the Nowotny-Juza LiMgAsxSb1-x alloy. Computational Condensed Matter, 2019, 21, e00401.	2.1	5
8	Formation enthalpy: A comparative study for datamining approach and first-principle calculations: Hydrogen storage. AIP Conference Proceedings, 2019, , .	0.4	0
9	Insight into the structural, electronic and elastic properties of AInQ2 (A: K, Rb and Q: S, Se, Te) layered structures from first-principles calculations. Chinese Journal of Physics, 2018, 56, 1074-1088.	3.9	5
10	DFT study of structural, electronic and elastic properties of two polymorphs of monoclinic CsGaQ2 (Qâ€¯=â€¯S, Se). Chinese Journal of Physics, 2018, 56, 1345-1352.	3.9	4
11	A datamining approach to classify, select and predict the formation enthalpy for intermetallic compound hydrides. International Journal of Hydrogen Energy, 2018, 43, 19111-19120.	7.1	5
12	The destabilising effect of alkali metal (Na and K) of hydrazine-borane N2H4BH3 for hydrogen storage: Ab-initio study. International Journal of Hydrogen Energy, 2018, 43, 14520-14531.	7.1	2
13	First-Principles Calculations of Structural, Electronic and Optical Properties of Ternary Semiconductor Alloys ZAs x Sb1â^'x (ZÂ=ÂB, Al, Ga, In). Journal of Electronic Materials, 2017, 46, 4805-4814.	2.2	6
14	Effect of pressure on structural, elastic and mechanical properties of transition metal hydrides Mg7TMH16 (TMÂ=ÂSc, Ti, V, Y, Zr and Nb): First-principles investigation. Journal of Physics and Chemistry of Solids, 2017, 111, 229-237.	4.0	7
15	Structural, Electronic and Elastic Properties of MgH2, CaH2 and Ca4Mg3H14 for Hydrogen Storage Materials. Journal of Electronic Materials, 2016, 45, 3935-3942.	2.2	10
16	A datamining approach to predict the formation enthalpy for rare-earth dihydrides REH2 (REÂ=ÂCe,Pr,Dy). International Journal of Hydrogen Energy, 2016, 41, 11254-11263.	7.1	11
17	Solid-state structures and properties of scandium hydride; hydrogen storage and switchable mirrors application. EPJ Applied Physics, 2016, 74, 24614.	0.7	2
18	Ab initio study of the structural, electronic and optical properties of ZnTe compound. AIP Conference Proceedings, 2015, , .	0.4	3

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19	Ab initio calculations of structural, electronic, optical and thermodynamic properties of alkaline earth tellurides BaxSr1â^'XTe. Journal of Physics and Chemistry of Solids, 2014, 75, 307-314.	4.0	11
20	The effect of hydrogen on the mechanical properties of FeTi for hydrogen storage applications. International Journal of Hydrogen Energy, 2014, 39, 12667-12675.	7.1	24
21	Electronic and elastic properties of Mg7TiH16 hydrogen storage material. Computational Materials Science, 2013, 78, 110-115.	3.0	6
22	Elastic properties of perovskite-type hydride NaMgH3 for hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 1484-1489.	7.1	54
23	Structural and elastic properties of LiBH4 for hydrogen storage applications. Journal of Alloys and Compounds, 2012, 534, 20-24.	5.5	62
24	THE AB INITIO CALCULATION OF THE DYNAMICAL AND THE THERMODYNAMIC PROPERTIES OF THE ZINC-BLENDE GaX (X=N, P, As AND Sb). International Journal of Computational Materials Science and Engineering, 2012, 01, 1250026.	0.7	2
25	Structural, electronic, elastic and thermodynamical properties of Ba_xSr_{1â^'x}LiH₃. Physica Scripta, 2011, 84, 065705.	2.5	5
26	Thermodynamic functions from lattice dynamic of KMgH3 for hydrogen storage applications. Journal of Alloys and Compounds, 2011, 509, 8994-8998.	5.5	12
27	Hydrogen storage: Lattice dynamics of orthorhombic NaMgH3. Physica B: Condensed Matter, 2011, 406, 1000-1003.	2.7	24
28	Ab initio calculations study of the electronic, optical and thermodynamic properties of NaMgH3, for hydrogen storage. Journal of Physics and Chemistry of Solids, 2010, 71, 1264-1268.	4.0	33
29	Hydrogen solid storage: First-principles study of ZrNiH3. International Journal of Hydrogen Energy, 2009, 34, 4997-5002.	7.1	30