

Y Bouhadda

List of Publications by Year in descending order

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papers

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times ranked

274
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and elastic properties of LiBH ₄ for hydrogen storage applications. Journal of Alloys and Compounds, 2012, 534, 20-24.	5.5	62
2	Elastic properties of perovskite-type hydride NaMgH ₃ for hydrogen storage. International Journal of Hydrogen Energy, 2013, 38, 1484-1489.	7.1	54
3	Ab initio calculations study of the electronic, optical and thermodynamic properties of NaMgH ₃ , for hydrogen storage. Journal of Physics and Chemistry of Solids, 2010, 71, 1264-1268.	4.0	33
4	Hydrogen solid storage: First-principles study of ZrNiH ₃ . International Journal of Hydrogen Energy, 2009, 34, 4997-5002.	7.1	30
5	Hydrogen storage: Lattice dynamics of orthorhombic NaMgH ₃ . Physica B: Condensed Matter, 2011, 406, 1000-1003.	2.7	24
6	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
7	Thermodynamic functions from lattice dynamic of KMgH ₃ for hydrogen storage applications. Journal of Alloys and Compounds, 2011, 509, 8994-8998.	5.5	12
8	Ab initio calculations of structural, electronic, optical and thermodynamic properties of alkaline earth tellurides Ba _x Sr _{1-x} Te. Journal of Physics and Chemistry of Solids, 2014, 75, 307-314.	4.0	11
9	A datamining approach to predict the formation enthalpy for rare-earth dihydrides REH ₂ (RE=Ce,Pr,Dy). International Journal of Hydrogen Energy, 2016, 41, 11254-11263.	7.1	11
10	Structural, Electronic and Elastic Properties of MgH ₂ , CaH ₂ and Ca ₄ Mg ₃ H ₁₄ for Hydrogen Storage Materials. Journal of Electronic Materials, 2016, 45, 3935-3942.	2.2	10
11	Effect of pressure on structural, elastic and mechanical properties of transition metal hydrides Mg ₇ TMH ₁₆ (TM=Sc, Ti, V, Y, Zr and Nb): First-principles investigation. Journal of Physics and Chemistry of Solids, 2017, 111, 229-237.	4.0	7
12	Electronic and elastic properties of Mg ₇ TiH ₁₆ hydrogen storage material. Computational Materials Science, 2013, 78, 110-115.	3.0	6
13	First-Principles Calculations of Structural, Electronic and Optical Properties of Ternary Semiconductor Alloys ZAs _x Sb _{1-x} (Z=Al, Ga, In). Journal of Electronic Materials, 2017, 46, 4805-4814.	2.2	6
14	Structural, electronic, elastic and thermodynamical properties of Ba _x Sr _{1-x} LiH ₃ . Physica Scripta, 2011, 84, 065705.	2.5	5
15	Insight into the structural, electronic and elastic properties of AlnQ ₂ (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
16	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
17	Theoretical prediction of the structural, elastic, electronic, and thermodynamic properties of the Nowotny-Juza LiMgAs _x Sb _{1-x} alloy. Computational Condensed Matter, 2019, 21, e00401.	2.1	5
18	DFT study of structural, electronic and elastic properties of two polymorphs of monoclinic CsGaQ ₂ (Q=S, Se). Chinese Journal of Physics, 2018, 56, 1345-1352.	3.9	4

#	ARTICLE	IF	CITATIONS
19	Ab initio study of the structural, electronic and optical properties of ZnTe compound. AIP Conference Proceedings, 2015, , .	0.4	3
20	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
21	The destabilising effect of alkali metal (Na and K) of hydrazine-borane N ₂ H ₄ BH ₃ for hydrogen storage: Ab-initio study. International Journal of Hydrogen Energy, 2018, 43, 14520-14531.	7.1	2
22	Solid-state structures and properties of scandium hydride; hydrogen storage and switchable mirrors application. EPJ Applied Physics, 2016, 74, 24614.	0.7	2
23	First principles study and reconsideration of the mechanical and dynamic stability of hydrogen-rich compound cl14-CaH ₆ high critical temperature superconductor under pressure. Physica C: Superconductivity and Its Applications, 2021, 587, 1353899.	1.2	1
24	Formation enthalpy: A comparative study for datamining approach and first-principle calculations: Hydrogen storage. AIP Conference Proceedings, 2019, , .	0.4	0
25	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
26	Effect of SrAl ₂ H ₂ on the Stability of MgH ₂ for Hydrogen Storage Application. Springer Proceedings in Energy, 2020, , 219-224.	0.3	0
27	Prediction of New Hydrogen Storage Materials: Structural Stability of SrAlH ₃ from First Principle Calculation. Springer Proceedings in Energy, 2021, , 113-119.	0.3	0
28	Hydrogen Storage for Mobile Applications: First-Principles Study of SrAlH ₃ . Springer Proceedings in Energy, 2020, , 231-237.	0.3	0
29	A principal component analysis of complex Iridium hydrides XYIrH ₆ (X=K, Na; Y= Ba, Sr, Ca) and Osmium hydrides ZO ₆ H ₆ (Z= Ba, Sr, Ca, Mg). , 2021, , .		0