Prayoonsak Pluengphon

List of Publications by Year
in descending order

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26	298	933264 10	940416 16
papers	citations	h-index	g-index

26	26	26	231
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural, optical, and electrical properties via two simple routes for the synthesis of multi-phase potassium antimony oxide thin films. Physica B: Condensed Matter, 2022, 637, 413885.	1.3	5
2	Structural and optical properties of undoped and Sb-doped lead oxide thin films synthesized via the chemical bath deposition method. Optical Materials, 2022, 126, 112179.	1.7	10
3	Ni-induced photoabsorption and hydrogen desorption on the Liâ€“Mg hydrides using ab initio calculation. Solid State Communications, 2022, 347, 114736.	0.9	4
4	TM dopant-induced H-vacancy diffusion kinetics of sodium-lithium alanates: Ab initio study for hydrogen storage improvement. International Journal of Hydrogen Energy, 2022, 47, 18763-18771.	3.8	11
5	Formation of Lightweight Ternary Polyhydrides and Their Hydrogen Storage Mechanism. Journal of Physical Chemistry C, 2021, 125, 1723-1730.	1.5	19
6	Dynamical stabilization and H-vacancy diffusion kinetics of lightweight complex hydrides: Ab initio study for hydrogen storage improvement. International Journal of Hydrogen Energy, 2021, 46, 22591-22598.	3.8	11
7	Structural, thermodynamic, electronic, and magnetic properties of superconducting FeSeâ€“CsCl type: Ab initio searching technique with van der Waals corrections. Materials Chemistry and Physics, 2021, 267, 124708.	2.0	8
8	Effect of substitution on the superconducting phase of transition metal dichalcogenide Nb(Se$$_{x}$$S$$_{1-x}$$)$$_{2}$$ van der Waals layered structure. Scientific Reports, 2021, 11, 15215.	1.6	4
9	Fe-doped effects on phase transition and electronic structure of CeO2 under compressed conditions from ab initio calculations. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
10	Indium dopant-induced morphological and optical properties of tin-antimony sulfide thin films synthesized by the spin coating method compared with ab initio calculation. Materials Letters, 2021, 300, 130140.	1.3	6
11	Improving the thermoelectric properties of thick Sb2Te3 film via Cu doping and annealing deposited by DC magnetron sputtering using a mosaic target. Current Applied Physics, 2021, 31, 7-15.	1.1	10
12	Nature of electronic topological transition and superconductivity in bismuth under high pressure from ab initio random structure searching. Computational Materials Science, 2021, 200, 110806.	1.4	5
13	Improving the photo-thermoelectric performance of CuAlO2 via doping with Bi. Materials Research Bulletin, 2021, 144, 111479.	2.7	9
14	Pressure-induced structural stability of alkali trihydrides and H2-desorption occurrence: Ab initio study for hydrogen storage improvement. International Journal of Hydrogen Energy, 2020, 45, 25065-25074.	3.8	17
15	Route to high-$$T_{c}$$ superconductivity of $$hbox {BC}_{{7}}$$ via strong bonding of boronâ€“carbon compound at high pressure. Scientific Reports, 2020, 10, 18090.	1.6	11
16	High-pressure phases induce H-vacancy diffusion kinetics in TM-doped MgH2: Ab initio study for hydrogen storage improvement. International Journal of Hydrogen Energy, 2019, 44, 21948-21954.	3.8	26
17	Experimental Study on Flexible Bismuth Telluride Thin Films Deposited by DC Sputtering at Different Powers. Journal of Electronic Materials, 2019, 48, 3490-3496.	1.0	3
18	Pressureâ€Induced Formation of Quaternary Compound and Inâ‹¯N Distribution in InGaAsN Zincblende from Ab Initio Calculation. ChemistryOpen, 2019, 8, 393-398.	0.9	8

#	Article	IF	Citations
19	Low temperature preparation of oxygen-deficient tin dioxide nanocrystals and a role of oxygen vacancy in photocatalytic activity improvement. Journal of Colloid and Interface Science, 2018, 512, 105-114.	5.0	59
20	Structural, electronic, optical and mechanical properties of InP alloyed with Zn, Si, Sn and S under pressure: First-principles calculation. Journal of Alloys and Compounds, 2017, 700, 98-105.	2.8	17
21	Structural phase transitions of Ga(Mn)N under high pressure. Journal of Physics: Conference Series, 2017, 901, 012030.	0.3	1
22	Phase stability and elastic properties of CuGaSe2 under high pressure. Solid State Communications, 2015, 218, 1-5.	0.9	12
23	Ab initio study of electronic density of state and photoabsorption of Ga1â˜'xMnxAs under pressure. Solid State Communications, 2015, 202, 19-23.	0.9	5
24	Structural and mechanical properties of GaAs under pressure up to 200 GPa. Solid State Communications, 2014, 195, 26-30.	0.9	15
25	The effects of Na on high pressure phases of CuIn_{0.5}Ga_{0.5}Se₂fromab initiocalculation. Journal of Physics Condensed Matter, 2012, 24, 095802.	0.7	6
26	Ab initio calculation of high pressure phases and electronic properties of CuInSe2. Solid State Communications, 2012, 152, 775-778.	0.9	13