

Prayoonsak Pluengphon

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

298
citations

933264

10
h-index

940416

16
g-index

26
all docs

26
docs citations

26
times ranked

231
citing authors

#	ARTICLE	IF	CITATIONS
1	Low temperature preparation of oxygen-deficient tin dioxide nanocrystals and a role of oxygen vacancy in photocatalytic activity improvement. <i>Journal of Colloid and Interface Science</i> , 2018, 512, 105-114.	5.0	59
2	High-pressure phases induce H-vacancy diffusion kinetics in TM-doped MgH ₂ : Ab initio study for hydrogen storage improvement. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21948-21954.	3.8	26
3	Formation of Lightweight Ternary Polyhydrides and Their Hydrogen Storage Mechanism. <i>Journal of Physical Chemistry C</i> , 2021, 125, 1723-1730.	1.5	19
4	Structural, electronic, optical and mechanical properties of InP alloyed with Zn, Si, Sn and S under pressure: First-principles calculation. <i>Journal of Alloys and Compounds</i> , 2017, 700, 98-105.	2.8	17
5	Pressure-induced structural stability of alkali trihydrides and H ₂ -desorption occurrence: Ab initio study for hydrogen storage improvement. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25065-25074.	3.8	17
6	Structural and mechanical properties of GaAs under pressure up to 200 GPa. <i>Solid State Communications</i> , 2014, 195, 26-30.	0.9	15
7	Ab initio calculation of high pressure phases and electronic properties of CuInSe ₂ . <i>Solid State Communications</i> , 2012, 152, 775-778.	0.9	13
8	Phase stability and elastic properties of CuGaSe ₂ under high pressure. <i>Solid State Communications</i> , 2015, 218, 1-5.	0.9	12
9	Route to high- T_c superconductivity of $\text{BC}_{1-x}\text{C}_x$ via strong bonding of boron-carbon compound at high pressure. <i>Scientific Reports</i> , 2020, 10, 18090.	1.6	11
10	Dynamical stabilization and H-vacancy diffusion kinetics of lightweight complex hydrides: Ab initio study for hydrogen storage improvement. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 22591-22598.	3.8	11
11	TM dopant-induced H-vacancy diffusion kinetics of sodium-lithium alanates: Ab initio study for hydrogen storage improvement. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 18763-18771.	3.8	11
12	Improving the thermoelectric properties of thick Sb ₂ Te ₃ film via Cu doping and annealing deposited by DC magnetron sputtering using a mosaic target. <i>Current Applied Physics</i> , 2021, 31, 7-15.	1.1	10
13	Structural and optical properties of undoped and Sb-doped lead oxide thin films synthesized via the chemical bath deposition method. <i>Optical Materials</i> , 2022, 126, 112179.	1.7	10
14	Improving the photo-thermoelectric performance of CuAlO ₂ via doping with Bi. <i>Materials Research Bulletin</i> , 2021, 144, 111479.	2.7	9
15	Pressure-induced Formation of Quaternary Compound and In ⁿ Distribution in InGaAsN Zincblende from Ab Initio Calculation. <i>ChemistryOpen</i> , 2019, 8, 393-398.	0.9	8
16	Structural, thermodynamic, electronic, and magnetic properties of superconducting FeSe _{1-x} Cl _x type: Ab initio searching technique with van der Waals corrections. <i>Materials Chemistry and Physics</i> , 2021, 267, 124708.	2.0	8
17	The effects of Na on high pressure phases of $\text{CuIn}_{0.5}\text{Ga}_{0.5}\text{Se}_2$ from ab initio calculation. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 095802.	0.7	6
18	Indium dopant-induced morphological and optical properties of tin-antimony sulfide thin films synthesized by the spin coating method compared with ab initio calculation. <i>Materials Letters</i> , 2021, 300, 130140.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Ab initio study of electronic density of state and photoabsorption of Ga _{1-x} MnxAs under pressure. Solid State Communications, 2015, 202, 19-23.	0.9	5
20	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
21	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
22	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
23	Ni-induced photoabsorption and hydrogen desorption on the Li-Mg hydrides using ab initio calculation. Solid State Communications, 2022, 347, 114736.	0.9	4
24	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
25	Fe-doped effects on phase transition and electronic structure of CeO ₂ under compressed conditions from ab initio calculations. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	1.1	3
26	Structural phase transitions of Ga(Mn)N under high pressure. Journal of Physics: Conference Series, 2017, 901, 012030.	0.3	1