Annop Ektarawong

List of Publications by Year
in descending order

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30 papers	366 citations	932766 10 h-index	794141 19 g-index
30 all docs	30 docs citations	30 times ranked	410 citing authors

#	Article	IF	Citations
1	Thermodynamic stability and superconductivity of tantalum carbides from first-principles cluster expansion and isotropic Eliashberg theory. Computational Materials Science, 2022, 202, 111004.	1.4	6
2	Presence and absence of intrinsic magnetism in graphitic carbon nitrides designed through Câ€“Nâ€“H building blocks. Scientific Reports, 2022, 12, 2343.	1.6	4
3	The effect of strain and pressure on the electron-phonon coupling and superconductivity in MgB2â€”Benchmark of theoretical methodologies and outlook for nanostructure design. Journal of Physics: Condensed Matter, 2022, 34, 063002.	1.1	1
4	Effect of chemical composition and atomic configuration on thermodynamic stability and elastic properties of AlB<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2304" altimg="si41.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-type Sc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2312" altimg="si158.svg"><mml:msub><mml:mrow	1.4	2
5	Effect of thermally excited lattice vibrations on the thermodynamic stability of tungsten ditellurides WTe2 under high pressure: A first-principles investigation. Computational Materials Science, 2021, 186, 110024.	1.4	6
6	Effect of atomic configuration and spinâ€“orbit coupling on thermodynamic stability and electronic bandgap of monolayer 2H-Mo_{1â^'x}W_xS₂ solid solutions. Physical Chemistry Chemical Physics, 2021, 23, 13535-13543.	1.3	3
7	A comparison of the mixing thermodynamics of the antifluorite-structured Mg2Si1â^'xGex, Mg2Sn1â^'xGex and Mg2Si1â^'xSnx alloys from first principles. Vacuum, 2021, 185, 110018.	1.6	2
8	Coupling of lattice dynamics and configurational disorder in metal deficient Al1â^'ÎB2 from first-principles. Journal of Applied Physics, 2021, 130, 015110.	1.1	6
9	Data-driven analysis of the rotational energy landscapes of an organic cation in a substituted alloy perovskite. Materials Advances, 2021, 2, 2366-2372.	2.6	0
10	Modifying Electronic and Elastic Properties of 2-Dimensional [110] Diamond by Nitrogen Substitution. Journal of Carbon Research, 2021, 7, 8.	1.4	8
11	Pressure-induced isostructural clustering and semiconductor-to-semimetal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow><mml:mn mathvariant="normal">W</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Se</mml:mi><mml:mrow> Physical Review B, 2021, 104, .	1.1	2
12	Roles of nitrogen substitution and surface reconstruction in stabilizing nonpassivated single-layer diamond. Physical Review B, 2020, 102, .	1.1	12
13	Role of spin-orbit coupling in the alloying behavior of multilayer Bi1â^'xSbx solid solutions revealed by a first-principles cluster expansion. Physical Review B, 2020, 101, .	1.1	10
14	Theoretical investigation of mixing and clustering thermodynamics of Ti1â^'xAlxB2 alloys with potential for age-hardening. Journal of Applied Physics, 2020, 128, 235101.	1.1	7
15	Mysterious SiB₃: Identifying the Relation between Î±- and Î²-SiB₃. ACS Omega, 2019, 4, 18741-18759.	1.6	9
16	Phase stability of three-dimensional bulk and two-dimensional monolayer As_{1â^'x}Sb_x solid solutions from first principles. Journal of Physics Condensed Matter, 2019, 31, 245702.	0.7	6
17	Phase stabilities and vibrational analysis of hydrogenated diamondized bilayer graphenes: A first principles investigation. Carbon, 2019, 146, 468-475.	5.4	43
18	Theoretical predictions for low-temperature phases, softening of phonons and elastic stiffnesses, and electronic properties of sodium peroxide under high pressure. RSC Advances, 2019, 9, 30964-30975.	1.7	11

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19	Phase stability of two-dimensional monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>As</mml:mi><mml:mrow><mml:mn>1</mml:mn> mathvariant="normal">P</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> solid solutions revealed by a first-principles cluster expansion. Physical Review Materials, 2019, 3, .	0.9	2
20	Structural models of increasing complexity for icosahedral boron carbide with compositions throughout the single-phase region from first principles. Physical Review B, 2018, 97, .	1.1	9
21	Thermodynamic consideration and ground-state search of icosahedral boron subselenide B12(B1â^'xSex)2 from a first-principles cluster expansion. Physical Review B, 2018, 97, .	1.1	2
22	Stability of SnSe_{1â^'x}S_x solid solutions revealed by first-principles cluster expansion. Journal of Physics Condensed Matter, 2018, 30, 29LT01.	0.7	14
23	Effect of temperature and configurational disorder on the electronic band gap of boron carbide from first principles. Physical Review Materials, 2018, 2, .	0.9	2
24	Thermodynamic stability and properties of boron subnitrides from first principles. Physical Review B, 2017, 95, .	1.1	13
25	First-principles prediction of stabilities and instabilities of compounds and alloys in the ternary B-As-P system. Physical Review B, 2017, 96, .	1.1	18
26	Effects of configurational disorder on the elastic properties of icosahedral boron-rich alloys based on B6O, B13C2, and B4C, and their mixing thermodynamics. Journal of Chemical Physics, 2016, 144, 134503.	1.2	18
27	Carbon-rich icosahedral boron carbides beyond <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">B</mml:mi><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi></mml:mrow></mml:math> and their thermodynamic stabilities at high temperature and pressure from first principles. Physical Review B, 2016, 94, .	1.1	21
28	Configurational order-disorder induced metal-nonmetal transition in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mtext>B</mml:mtext><mml:mn>13</mml:mn></mml:msub></mml:mrow></mml:math> with first-principles superatom-special quasirandom structure method. Physical Review B, 2015, 92, .	1.1	22
29	Control of Ti1â^'xSixN nanostructure via tunable metal-ion momentum transfer during HIPIMS/DCMS co-deposition. Surface and Coatings Technology, 2015, 280, 174-184.	2.2	53
30	First-principles study of configurational disorder in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi mathvariant="normal">B</mml:mi></mml:mrow><mml:mn>4</mml:mn></mml:msub><mml:mi mathvariant="normal">C</mml:mi></mml:math> using a superatom-special quasirandom structure method. Physical Review B, 2014, 90, .	1.1	54