Annop Ektarawong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5295919/publications.pdf

Version: 2024-02-01

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	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
2	Control of Ti1âˆ’xSixN nanostructure via tunable metal-ion momentum transfer during HIPIMS/DCMS co-deposition. Surface and Coatings Technology, 2015, 280, 174-184.	2.2	53
3	Phase stabilities and vibrational analysis of hydrogenated diamondized bilayer graphenes: A first principles investigation. Carbon, 2019, 146, 468-475.	5.4	43
4	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:mi>C</mml:mi></mml:mrow></mml:math>2with first-principles superatom-special quasirandom structure method. Physical Review B, 2015, 92, .	1.1	22
5	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
6	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
7	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
8	Stability of SnSe_{1âˆ’x}S_x solid solutions revealed by first-principles cluster expansion. Journal of Physics Condensed Matter, 2018, 30, 29LT01.	0.7	14
9	Thermodynamic stability and properties of boron subnitrides from first principles. Physical Review B, 2017, 95, .	1.1	13
10	Roles of nitrogen substitution and surface reconstruction in stabilizing nonpassivated single-layer diamond. Physical Review B, 2020, 102, .	1.1	12
11	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
12	Role of spin-orbit coupling in the alloying behavior of multilayer Bi1âˆ’xSbx solid solutions revealed by a first-principles cluster expansion. Physical Review B, 2020, 101, .	1.1	10
13	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
14	Mysterious SiB₃: Identifying the Relation between Î±- and Î²-SiB₃. ACS Omega, 2019, 4, 18741-18759.	1.6	9
15	Modifying Electronic and Elastic Properties of 2-Dimensional [110] Diamond by Nitrogen Substitution. Journal of Carbon Research, 2021, 7, 8.	1.4	8
16	Theoretical investigation of mixing and clustering thermodynamics of Ti1âˆ’xAlxB2 alloys with potential for age-hardening. Journal of Applied Physics, 2020, 128, 235101.	1.1	7
17	Phase stability of three-dimensional bulk and two-dimensional monolayer As_{1âˆ’x}Sb_x solid solutions from first principles. Journal of Physics Condensed Matter, 2019, 31, 245702.	0.7	6
18	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

#	Article	IF	Citations
19	Coupling of lattice dynamics and configurational disorder in metal deficient Al1â^ˆÎ˛B2 from first-principles. Journal of Applied Physics, 2021, 130, 015110.	1.1	6
20	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
21	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
22	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
23	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
24	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
25	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
26	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><mml:mo>−</mml:mo><mml:mi mathvariant="normal">P</mml:mi><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math> solid solutions revealed by a first-principles cluster expansion. Physical Review Materials, 2019, 3, .	0.9	2
27	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:mi mathvariant="normal">W</mml:mi><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:msub><mml:mi>Se</mml:mi><mml:mrow>	1.1	2
28	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
29	The effects of strain and pressure on the electron–phonon coupling and superconductivity in MgB2â€”Benchmark of theoretical methodologies and outlook for nanostructure design. Journal of Applied Physics, 2022, 131, 063902.	1.1	1
30	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