Hao-ran Gong

List of Publications by Year
in descending order

31	494	516710 16	713466 21
papers	citations	h-index	g-index

33	33	33	336
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Atomistic modeling of solid-state amorphization in an immiscible Cu-Ta system. Physical Review B, 2002, 66, .	3.2	56
2	Interface structure and work function of W-Cu interfaces. Applied Physics Letters, 2013, 103, .	3.3	43
3	Atomic structure, mechanical quality, and thermodynamic property of TiH_x phases. Journal of Applied Physics, 2013, 114, 043510.	2.5	32
4	Thermodynamic and mechanical properties of TiC from ab initio calculation. Journal of Applied Physics, 2014, 116, .	2.5	29
5	Liquid metal embrittlement of an Fe10Cr4Al ferritic alloy exposed to oxygen-depleted and -saturated lead-bismuth eutectic at 350Â°C. Corrosion Science, 2020, 165, 108364.	6.6	26
6	Structural, thermodynamic, mechanical, and magnetic properties of FeW system. Journal of Applied Physics, 2014, 116, .	2.5	25
7	Strain-stress relationship and dislocation evolution of Wâ€“Cu bilayers from a constructed n-body Wâ€“Cu potential. Journal of Physics Condensed Matter, 2019, 31, 305002.	1.8	23
8	Computationally predicted fundamental behaviors of embedded hydrogen at TiC/W interfaces. International Journal of Hydrogen Energy, 2018, 43, 16180-16186.	7.1	21
9	Band structure, phonon spectrum, and thermoelectric properties of Î²-BiAs and Î²-BiSb monolayers. Journal of Materials Chemistry C, 2020, 8, 581-590.	5.5	21
10	Glass-forming ability determined by ann-body potential in a highly immiscible Cu-W system through molecular dynamics simulations. Physical Review B, 2003, 68, .	3.2	20
11	Band structure and thermoelectric performances of antimony under trigonal transformation. Journal of Applied Physics, 2019, 125, .	2.5	20
12	Comparative study of metastable phase formation in the immiscible Cuâ€“W system byab initiocalculation andn-body potential. Journal of Physics Condensed Matter, 2004, 16, 5251-5258.	1.8	18
13	Metastability of an immiscible Cu-Mo system calculated from first-principles and a derivedn-body potential. Physical Review B, 2004, 69, .	3.2	18
14	Structural stability and mechanical property of Fe-W solid solutions from a constructed Fe-W potential. Journal of Applied Physics, 2019, 126, .	2.5	18
15	Structural stability and magnetic properties of metastable Fe-Cu alloys studied byab initiocalculations and molecular dynamics simulations. Physical Review B, 2004, 69, .	3.2	17
16	Effects of trigonal deformation on electronic structure and thermoelectric properties of bismuth. Journal of Physics Condensed Matter, 2018, 30, 285504.	1.8	17
17	Influence of internal displacement on band structure, phase transition, and thermoelectric properties of bismuth. Journal of Materials Science, 2019, 54, 6347-6360.	3.7	17
18	Magnetic ground state of face-centered-cubic structure of iron. Journal of Physics Condensed Matter, 2020, 32, 165806.	1.8	12

#	Article	IF	Citations
19	8-Layer Shifted Hexagonal Perovskite Ba₈MnNb₆O₂₄: Long-Range Ordering of High-Spin d⁵ Mn²⁺ Layers and Electronic Structure. Inorganic Chemistry, 2018, 57, 5732-5742.	4.0	10
20	Effects of low dimensionality on electronic structure and thermoelectric properties of bismuth. RSC Advances, 2019, 9, 40670-40680.	3.6	10
21	Construction of an n-body Feâ€“Cu potential and its application in atomistic modeling of Feâ€“Cu solid solutions. Journal of Applied Physics, 2020, 127, 045104.	2.5	6
22	Atomic structure, tensile property, and dislocation behavior of Feâ€“W interfaces from molecular dynamics simulation. Journal of Physics Condensed Matter, 2021, 33, 145901.	1.8	6
23	Phase stability and mechanical property of Wâ€“Cu solid solutions from a newly derived Wâ€“Cu potential. Physica B: Condensed Matter, 2022, 624, 413436.	2.7	6
24	Stacking fault energy and electronic structure of molybdenum under solid solution softening/hardening. Journal of Central South University, 2021, 28, 39-47.	3.0	5
25	Hydrogen solubility and diffusivity at Î£3 grain boundary of PdCu. RSC Advances, 2021, 11, 13644-13652.	3.6	4
26	Cohesive properties of PbBi/Fe₃O₄ and PbBi/(Fe,Cr)₃O₄ interfaces. Physical Chemistry Chemical Physics, 2022, 24, 6732-6741.	2.8	4
27	Atomistic modelling of the immiscible Feâ€“Bi system from a constructed bond order potential. Journal of Physics Condensed Matter, 2022, 34, 025901.	1.8	3
28	Fundamental effect of lead on mechanical properties of iron from a constructed iron-lead potential. Computational Materials Science, 2022, 212, 111587.	3.0	3
29	Phonon spectrum and thermoelectric properties of square/octagon structure of bismuth monolayer. RSC Advances, 2021, 11, 5107-5117.	3.6	2
30	Heats of formation and stress-strain relationship of Fe-Cr solid solutions from a constructed Fe-Cr potential. Journal of Physics Condensed Matter, 2022, , .	1.8	0
31	Addendum: Magnetic ground state of face-centered-cubic structure of iron (2020 J. Phys.: Condens.) Tj ETQq1 1 0.784314 rgBT /Over	1.8	0