

Qi-Jun Hong

List of Publications by Year in descending order

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35
papers

1,924
citations

394421

19
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	Theoretical prediction of high melting temperature for a Mo-Ru-Ta-W HCP multiprincipal element alloy. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	186
2	Computational Assessment of Novel Predicted Compounds in Ni-Re Alloy System. <i>Journal of Phase Equilibria and Diffusion</i> , 2021, 42, 315-320.	1.4	3
3	Rapid screening of high-throughput ground state predictions. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021, 74, 102306.	1.6	2
4	Software tools for thermodynamic calculation of mechanically unstable phases from first-principles data. <i>Computer Physics Communications</i> , 2020, 246, 106712.	7.5	9
5	Reentrant melting of sodium, magnesium, and aluminum: General trend. <i>Physical Review B</i> , 2019, 100, .	3.2	17
6	Carbides and Nitrides of Zirconium and Hafnium. <i>Materials</i> , 2019, 12, 2728.	2.9	56
7	First-principles thermal compatibility between Ru-based Re-substitute alloys and Ir coatings. <i>Computational Materials Science</i> , 2019, 170, 109199.	3.0	2
8	Assessing Phase Diagram Accuracy. <i>Journal of Phase Equilibria and Diffusion</i> , 2019, 40, 170-175.	1.4	6
9	Identifying rhenium substitute candidate multiprincipal-element alloys from electronic structure and thermodynamic criteria. <i>Journal of Materials Research</i> , 2019, 34, 3296-3304.	2.6	8
10	High-throughput calculations in the context of alloy design. <i>MRS Bulletin</i> , 2019, 44, 252-256.	3.5	24
11	Energetics of melting of Yb ₂ O ₃ and Lu ₂ O ₃ from drop and catch calorimetry and first principles computations. <i>Journal of Chemical Thermodynamics</i> , 2019, 132, 405-410.	2.0	12
12	First-principles calculations of thermal properties of the mechanically unstable phases of the PtTi and NiTi shape memory alloys. <i>Acta Materialia</i> , 2018, 147, 296-303.	7.9	26
13	The Thermodynamic Database Database. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 61, 173-178.	1.6	25
14	Invited paper: Reconciling SGTE and ab initio enthalpies of the elements. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018, 60, 1-6.	1.6	18
15	Combined computational and experimental investigation of high temperature thermodynamics and structure of cubic ZrO ₂ and HfO ₂ . <i>Scientific Reports</i> , 2018, 8, 14962.	3.3	35
16	Free energy calculation of mechanically unstable but dynamically stabilized bcc titanium. <i>Physical Review B</i> , 2017, 95, .	3.2	40
17	Software tools for high-throughput CALPHAD from first-principles data. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017, 58, 70-81.	1.6	57
18	Epicyle method for elasticity limit calculations. <i>Physical Review B</i> , 2017, 95, .	3.2	11

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19	A combined experimental and theoretical study of enthalpy of phase transition and fusion of yttria above 2000ÅÅ°C using â€œdrop-n-catchâ€œ-calorimetry and first-principles calculation. Acta Materialia, 2017, 124, 204-209.	7.9	14
20	Tetrahedron-tiling method for crystal structure prediction. Physical Review Materials, 2017, 1, .	2.4	3
21	First-principles study of phase equilibrium in Tiâ€™V, Tiâ€™Nb, and Tiâ€™Ta alloys. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 54, 125-133.	1.6	42
22	A user guide for SLUSCHI: Solid and Liquid in Ultra Small Coexistence with Hovering Interfaces. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2016, 52, 88-97.	1.6	23
23	The free energy of mechanically unstable phases. Nature Communications, 2015, 6, 7559.	12.8	54
24	Prediction of the material with highest known melting point from<i>ab initio</i>molecular dynamics calculations. Physical Review B, 2015, 92, .	3.2	126
25	Equation of state of solid, liquid and gaseous tantalum from first principles. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2015, 51, 133-143.	1.6	21
26	Combined computational and experimental investigation of the refractory properties of La2Zr2O7. Acta Materialia, 2015, 84, 275-282.	7.9	36
27	Simulations provide a rare look at real melting. Science, 2014, 346, 704-705.	12.6	7
28	<i>Ab initio</i> calculation of anisotropic interfacial excess free energies. Physical Review B, 2014, 89, .	3.2	12
29	Solid-liquid coexistence in small systems: A statistical method to calculate melting temperatures. Journal of Chemical Physics, 2013, 139, 094114.	3.0	48
30	Methods for First-Principles Alloy Thermodynamics. Jom, 2013, 65, 1523-1532.	1.9	64
31	Direct first-principles chemical potential calculations of liquids. Journal of Chemical Physics, 2012, 137, 094114.	3.0	14
32	Mechanism of CO2 hydrogenation over Cu/ZrO2(211) interface from first-principles kinetics Monte Carlo simulations. Surface Science, 2010, 604, 1869-1876.	1.9	62
33	CO2 fixation into methanol at Cu/ZrO2 interface from first principles kinetic Monte Carlo. Journal of Catalysis, 2009, 263, 114-122.	6.2	188
34	Multicomponent multisublattice alloys, nonconfigurational entropy and other additions to the Alloy Theoretic Automated Toolkit. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2009, 33, 266-278.	1.6	638
35	Interactive Exploration of High-Dimensional Phase Diagrams. Jom, 0, , 1.	1.9	0