Yifang Ouyang

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101
papers1,435
citations21
h-index32
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ext. papers1,688
ext. citations3.4
avg, IF4.37
L-index

#	Paper	IF	Citations
101	A thermodynamic description of the Alfießi system over the whole composition and temperature ranges via a hybrid approach of CALPHAD and key experiments. <i>Intermetallics</i> , 2008 , 16, 554-570	3.5	149
100	Phase stability of magnesium-rare earth binary systems from first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 6899-6907	5.7	47
99	Formation enthalpies of FeAlRE ternary alloys calculated with a geometric model and MiedemaR theory. <i>Journal of Alloys and Compounds</i> , 2006 , 416, 148-154	5.7	46
98	Structural evolution of mechanically alloyed nanocrystalline FeAl intermetallics. <i>Journal of Alloys and Compounds</i> , 2008 , 455, 207-209	5.7	45
97	Enhanced photocatalytic activity for water splitting of blue-phase GeS and GeSe monolayers via biaxial straining. <i>Nanoscale</i> , 2019 , 11, 2335-2342	7.7	42
96	Elastic constants of B2-MgRE (RE⊞ ြSc, Y, Lallu) calculated with first-principles. <i>Solid State Communications</i> , 2008 , 148, 314-318	1.6	42
95	Calculation of the thermodynamic properties of B2 AlRE (RE=Sc, Y, La, Cellu). <i>Physica B: Condensed Matter</i> , 2007 , 399, 27-32	2.8	39
94	Ab initio calculation of the total energy and elastic properties of Laves phase C15 Al2RE (RE=Sc, Y, La, Cellu). <i>Computational Materials Science</i> , 2008 , 44, 392-399	3.2	37
93	Distinct green electroluminescence from lead-free CsCuBr halide micro-crosses. <i>Chemical Communications</i> , 2019 , 55, 4554-4557	5.8	33
92	Thermodynamic modeling of the VBi system supported by key experiments. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2008 , 32, 320-325	1.9	33
91	Ab initio calculations of mechanical and thermodynamic properties for the B2-based AlRE. <i>Computational Materials Science</i> , 2007 , 40, 226-233	3.2	33
90	Enthalpies of formation for the Alluniar quaternary alloys calculated via a combined approach of geometric model and Miedema theory. <i>Journal of Alloys and Compounds</i> , 2006 , 420, 175-181	5.7	31
89	Highly-efficient all-inorganic lead-free 1D CsCu2I3 single crystal for white-light emitting diodes and UV photodetection. <i>Nano Energy</i> , 2021 , 81, 105570	17.1	31
88	Density-functional theory study of Aln and AlnIMg (n = 2II7) clusters. <i>Computational and Theoretical Chemistry</i> , 2012 , 984, 68-75	2	30
87	Machine learning reveals the importance of the formation enthalpy and atom-size difference in forming phases of high entropy alloys. <i>Materials and Design</i> , 2020 , 193, 108835	8.1	29
86	First-principles calculations of the thermodynamic and elastic properties of the L12-based Al3RE (RE = Sc, Y, La[lu). <i>International Journal of Materials Research</i> , 2008 , 99, 582-588	0.5	29
85	The formation and crystallization of amorphous Al65Fe20Zr15. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5555-5558	3.9	28

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84	Crystallization study of amorphous Al82Fe5Ni5Ce8 alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 454, 359-363	5.7	28	
83	Thermodynamic and physical properties of FeAl and Fe3Al: an atomistic study by EAM simulation. <i>Physica B: Condensed Matter</i> , 2012 , 407, 4530-4536	2.8	27	
82	Thermodynamic modeling of the CuMn system supported by key experiments. <i>Journal of Alloys and Compounds</i> , 2008 , 457, 233-238	5.7	24	
81	Molecular dynamics simulation of diffusion bonding of Al¶u interface. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2014 , 22, 065013	2	22	
80	Enhanced ultraviolet electroluminescence and spectral narrowing from ZnO quantum dots/GaN heterojunction diodes by using high-k HfO2 electron blocking layer. <i>Applied Physics Letters</i> , 2014 , 105, 063505	3.4	20	
79	Strengthening by the percolating intergranular eutectic in an HPDC Mgte alloy. <i>Materials Science & Microstructure and Processing</i> , 2014 , 599, 204-211	5.3	20	
78	Structure and thermodynamics of the key precipitated phases in the AlMgBi alloys from first-principles calculations. <i>Journal of Materials Science</i> , 2011 , 46, 7839-7849	4.3	20	
77	Extended solid solubility for Al-W binary system by mechanical alloying. <i>Science in China Series A:</i> Mathematics, 2000 , 43, 180-184		20	
76	Structure, elastic and thermodynamic properties of the Ni P system from first-principles calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2011 , 35, 284-291	1.9	19	
75	Structural, electronic and elastic properties of V5Si3 phases from first-principles calculations. <i>Computational Materials Science</i> , 2012 , 53, 169-174	3.2	18	
74	Thermodynamic optimization of the CuNd system. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2679-26	583 ₇	18	
73	The effect of Ti atom on hydrogenation of Al(111) surface: First-principles studies. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 609-613	6.7	18	
72	First-principles calculations of mechanical and thermodynamic properties of the Laves C15-Mg2RE (RE = La, Ce, Pr, Nd, Pm, Sm, Gd). <i>Computational Materials Science</i> , 2009 , 47, 297-301	3.2	17	
71	First-principles study of binary special quasirandom structures for the Alūu, Alūi, CuBi, and MgBi systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2009 , 33, 769-773	1.9	16	
70	The structural stability, elastic constants and electronic structure of AlBr intermetallics by first-principles calculations. <i>Physica B: Condensed Matter</i> , 2011 , 406, 3681-3686	2.8	16	
69	Contribution on the phase equilibria in ZrNbBe system. <i>Journal of Nuclear Materials</i> , 2015 , 466, 627-633	3.3	15	
68	Analytic embedded-atom potentials for bcc metals: application to calculating the thermodynamic data of bcc alloys. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1994 , 192, 79-86	2.3	15	
67	An experimental study on the interdiffusion behaviors and mechanical properties of Ni-Zr system. Journal of Alloys and Compounds, 2018 , 752, 412-419	5.7	14	

66	Interdiffusion behaviors and mechanical properties of Cu-Zr system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2018 , 61, 92-97	1.9	14
65	First-principles investigations of elastic, electronic and thermodynamic properties of Al12X (XI±IMo, W and Re). <i>Intermetallics</i> , 2012 , 24, 15-21	3.5	13
64	Nano-amorphous (FeAl)1⊠Zrx alloys prepared by mechanical alloying. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 314-318	5.7	13
63	First principle study of AlX (X=3d, 4d, 5d elements and Lu) dimer. <i>Journal of Chemical Physics</i> , 2008 , 128, 074305	3.9	12
62	Diffusivities and atomic mobilities for fcc CuNiBn alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2017 , 59, 84-89	1.9	11
61	First-principles investigation of the thermo-physical properties of Ca3Si4. <i>Journal of Solid State Chemistry</i> , 2012 , 194, 179-187	3.3	11
60	Elastic, phonon and thermodynamic properties of Mgta compounds from first-principles calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2012 , 37, 137-144	1.9	11
59	The mechanical, electronic structure and thermodynamic properties of B2-based AgRE studied from first-principles. <i>Physica Scripta</i> , 2011 , 83, 045301	2.6	11
58	First-principles calculations of elastic constants of DO3-Mg3RE (RE = Sc, Y, La, Ce, Lu). <i>Physica Scripta</i> , 2008 , 78, 065601	2.6	11
57	Interactions between Er dopant and intrinsic point defects of ZnO: a first-principles study. <i>Materials Research Express</i> , 2017 , 4, 035903	1.7	10
56	Phase stability, thermodynamic and mechanical properties of AlZr2, FeZr2 and Al2FeZr6 from first-principles calculations. <i>Journal of Nuclear Materials</i> , 2013 , 440, 6-10	3.3	10
55	Formation enthalpies of Alfie᠒rNd system calculated by using geometric and Miedemaß models. <i>Physica B: Condensed Matter</i> , 2015 , 463, 82-87	2.8	10
54	Phase equilibria of the Nillilla system at 927°C. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 448, 210-215	5.3	10
53	Highly Efficient Polarized GeS/MoSe2 van der Waals Heterostructure for Water Splitting from Ultraviolet to Near-Infrared Light. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900582	2.5	10
52	Investigation of diffusion behavior and mechanical properties of Mg-Zn system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019 , 65, 204-211	1.9	9
51	(FeAl3)1⊠Zrx amorphous alloys prepared by mechanical alloying. <i>Physica B: Condensed Matter</i> , 2007 , 391, 380-384	2.8	9
50	Preparation of iron-tungsten-boron alloy deposits by electroless plating. <i>Metal Finishing</i> , 1996 , 94, 31-3	5	9
49	Crystallization of Al2FeZr6 Amorphous Alloy Prepared by Mechanical Alloying. <i>Materials Transactions</i> , 2006 , 47, 388-391	1.3	8

48	Mechanical Alloying of Fe25Al75−xTix Mixed Powders. <i>Materials Transactions</i> , 2004 , 45, 1774-177	77.3	8
47	Low-voltage multicolor electroluminescence from all-inorganic carbon dots/Si-heterostructured light-emitting diodes. <i>Journal of Materials Science</i> , 2019 , 54, 8492-8503	4.3	7
46	Boosted electroluminescence of perovskite light-emitting diodes by pinhole passivation with insulating polymer. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 405103	3	7
45	Density functional study of 3d-transition metal aluminides. <i>Computational and Theoretical Chemistry</i> , 2009 , 905, 106-112		7
44	Development of a modified embedded atom method for bcc transition metals. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 8917-8926	1.8	7
43	Diffusional behaviors and mechanical properties of CuZn system. <i>Journal of Alloys and Compounds</i> , 2020 , 812, 152141	5.7	7
42	Toward near-white electroluminescence with enhanced blue emission from carbon dots in PEDOT:PSS/ZnO organic/inorganic hybrid heterojunctions. <i>Journal of Luminescence</i> , 2020 , 224, 117230	3.8	6
41	An interatomic potential for simulation of defects and phase change of zirconium. <i>Computational Materials Science</i> , 2018 , 147, 7-17	3.2	6
40	Surface energy and surface self-diffusion of Al calculated by embedded atom method. <i>Physica B: Condensed Matter</i> , 2013 , 422, 51-55	2.8	6
39	Atomic parameter model for the solid solubilities in binary transition metal based alloys. <i>Indian Journal of Physics</i> , 2011 , 85, 261-270	1.4	6
38	First-principles calculations of elastic and thermo-physical properties of Al, Mg and rare earth lanthanide elements. <i>Physica B: Condensed Matter</i> , 2009 , 404, 2299-2304	2.8	6
37	Strain Enhanced Visible Ultraviolet Absorption of Blue Phosphorene/MoX2 (X = S,Se) Heterolayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019 , 13, 1800659	2.5	5
36	Experimental Investigation on Phase Equilibria of Al-Fe-Y System at 773 K. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 256-261	1	5
35	Investigation of thermophysical, electronic and lattice dynamic properties for CaX2Si2 (X=Ni,Zn,Cu,Ag,Au) via first-principles calculations. <i>Computational Materials Science</i> , 2015 , 102, 167-173	3.2	5
34	Experimental investigation on phase equilibria of Ce-Sn-Zn system at 400 °C. <i>Journal of Rare Earths</i> , 2012 , 30, 916-922	3.7	5
33	First-principles investigation of the mechanical, electronic and thermophysical properties of Q-phase in AlMgBitu alloys. <i>Computational Materials Science</i> , 2013 , 67, 334-340	3.2	5
32	The elastic constants for Fe3AlX(X=B, C and N) with anti-perovskite structure. <i>Physica Scripta</i> , 2009 , 80, 055603	2.6	5
31	Electronic calculation of Mn3AlN with anti-perovskite structure. <i>Computational Materials Science</i> , 2008 , 44, 97-101	3.2	5

30	Theoretical study of spectroscopic parameters of alkali -Al and alkaline earth-Al dimers. <i>Theoretical Chemistry Accounts</i> , 2008 , 121, 165-172	1.9	5
29	Phase Stability and Mechanical Properties of AlfieRE via First-Principle Calculations. <i>Materials</i> , 2019 , 12,	3.5	4
28	Enhanced electroluminescence from n-ZnO NCs/n-Si isotype heterojunctions by using i-NiO as electron blocking layer. <i>Journal of Luminescence</i> , 2018 , 204, 5-9	3.8	4
27	Experimental Investigation of the Al-Fe-Nd System at 773 K. <i>Journal of Phase Equilibria and Diffusion</i> , 2014 , 35, 86-92	1	4
26	Toward near-white-light electroluminescence from n-ZnO nanocrystals/n-Si isotype heterojunctions via an AZO spectral scissor. <i>Optics Express</i> , 2017 , 25, 19004-19012	3.3	4
25	Experimental Investigation of the Al-Fe-Gd System at 773 K. <i>Journal of Phase Equilibria and Diffusion</i> , 2013 , 34, 116-121	1	3
24	Elastic constants and thermophysical properties of AlMgBi alloys from first-principles calculations. <i>International Journal of Materials Research</i> , 2010 , 101, 1392-1397	0.5	3
23	Structure and stability of AlHeIrte cluster: density functional study. <i>Theoretical Chemistry Accounts</i> , 2010 , 127, 651-659	1.9	3
22	The formation and crystallization for amorphous AlFeZr4 prepared by mechanical alloying. <i>Physica B: Condensed Matter</i> , 2010 , 405, 2005-2008	2.8	3
21	Diffusional behaviors and mechanical properties of Ni-Zn system. <i>Journal of Alloys and Compounds</i> , 2021 , 881, 160581	5.7	3
20	Improving and manipulating green-light electroluminescence in solution-processed ZnO nanocrystals via erbium doping. <i>Journal of Luminescence</i> , 2019 , 213, 127-132	3.8	2
19	The Isothermal Section of the Zr-Sn-Cu Ternary System at 700 LC. <i>Journal of Phase Equilibria and Diffusion</i> , 2018 , 39, 196-203	1	2
18	Exploring phase stability, electronic and mechanical properties of Ce P b intermetallic compounds using first-principles calculations. <i>Journal of Solid State Chemistry</i> , 2016 , 237, 385-393	3.3	2
17	Lattice dynamics properties of XAs (X=Al, Ga and In) with zinc-blende structure from first-principle calculations. <i>Journal of Physics and Chemistry of Solids</i> , 2012 , 73, 1034-1039	3.9	2
16	Size and composition dependence of melting temperature of binary nanoparticles. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011 , 54, 897-900	3.6	2
15	The atomic parameter model for the fifth and sixth transition metal quasicrystal alloys (Mc=0.5) 2009 , 52, 1593-1600		2
14	Model Equations for Solid Solubilities in Binary Non-Transition Metal Based Alloys. <i>Materials Transactions, JIM</i> , 1997 , 38, 589-594		2
13	The compositional range of amorphous phase formation and thermal stability of Al90NFe5Ni5Cex. Journal of Alloys and Compounds, 2008, 460, 309-313	5.7	2

LIST OF PUBLICATIONS

12	Two-dimensional polarized MoTe/GeS heterojunction with an intrinsic electric field for photocatalytic water-splitting <i>RSC Advances</i> , 2021 , 11, 34048-34058	3.7	2	
11	Codoping Er-N to Suppress Self-Compensation Donors for Stable p-Type Zinc Oxide. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800133	3.5	2	
10	Stability and physical properties tuning via interstitials chemical engineering of Zr5Sn3: a first-principles study. <i>Journal of Materials Science</i> , 2019 , 54, 10284-10296	4.3	1	
9	The effect of Al content on the structural, mechanical, and thermal properties of B2-FeAl and D03-Fe3Al from atomistic study. <i>Materials Research Express</i> , 2018 , 5, 026512	1.7	1	
8	The effect of grain boundary energy on the amorphous forming composition range of ZrEeAl ternary system. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 277-284	3.9	1	
7	The electronic, mechanical and lattice dynamic properties of TiSiY from first-principles calculations. <i>Computational Materials Science</i> , 2012 , 65, 485-489	3.2	1	
6	Suggest a new approach to fabricate AlFe2B2. Computational Materials Science, 2020, 171, 109239	3.2	1	
5	Molecular dynamics simulation of diffusion for Ni🏿 rinterface. <i>International Journal of Modern Physics B</i> , 2020 , 34, 2050217	1.1	1	
4	Interdiffusion behaviors and mechanical properties of Zn¶ system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2021 , 74, 102308	1.9	1	
3	Isothermal Section of the Al-Zn-RE (RE = Ho, Er) Systems at 450 LC. <i>Journal of Phase Equilibria and Diffusion</i> , 2016 , 37, 658-663	1	Ο	
2	Interdiffusion behaviors and mechanical properties in BCC Zr-rich ZrNbIIa system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2022 , 77, 102410	1.9	О	
1	Interdiffusion behaviors and mechanical properties of Zr-X (X Nb, Ta, Hf) binary systems. <i>Journal of Alloys and Compounds</i> , 2022 , 910, 164910	5.7	Ο	