Haipeng Wang

List of Publications by Year
in descending order

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58	795	567281	580821
papers	citations	15 h-index	25 g-index

58	58	58	501
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deformation behavior and processing maps of Ni 3 Al-based superalloy during isothermal hot compression. Journal of Alloys and Compounds, 2017, 712, 687-695.	5.5	90
2	Effect of annealing treatment on microstructure evolution and creep behavior of a multiphase Ni3Al-based superalloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 743, 623-635.	5.6	68
3	Remarkable solute trapping within rapidly growing dendrites. Applied Physics Letters, 2006, 89, 201905.	3.3	32
4	Thermophysical properties of a highly superheated and undercooled Niâ€“Si alloy melt. Applied Physics Letters, 2004, 84, 4062-4064.	3.3	31
5	Composition, Microstructure, Phase Constitution and Fundamental Physicochemical Properties of Low-Melting-Point Multi-Component Eutectic Alloys. Journal of Materials Science and Technology, 2017, 33, 131-154.	10.7	28
6	Rapid dendritic growth and solute trapping within undercooled ternary Ni-5%Cu-5%Mo alloy. Applied Physics A: Materials Science and Processing, 2012, 109, 139-143.	2.3	24
7	Influences of solution cooling rate on microstructural evolution of a multiphase Ni3Al-based intermetallic alloy. Intermetallics, 2019, 109, 48-59.	3.9	24
8	Rapid Eutectic Growth Kinetics of Undercooled Nb-Si Alloys at Electrostatic Levitation State. Acta Materialia, 2022, 237, 118157.	7.9	24
9	Heat transfer of micro-droplet during free fall in drop tube. Science China Technological Sciences, 2018, 61, 1021-1030.	4.0	23
10	Direct formation of peritectic phase but no primary phase appearance within Ni83.25Zr16.75 peritectic alloy during free fall. Scientific Reports, 2016, 6, 22641.	3.3	22
11	Local atomic structure correlating to phase selection in undercooled liquid Ni-Zr peritectic alloy. Journal of Applied Physics, 2018, 124, .	2.5	20
12	Atomic structure of liquid refractory Nb5Si3 intermetallic compound alloy based upon deep neural network potential. Journal of Applied Physics, 2021, 130, .	2.5	20
13	Electrostatic levitation under the single-axis feedback control condition. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1438-1444.	5.1	17
14	Solidification mechanism transition of liquid Coâ€“Cuâ€“Ni ternary alloy. Applied Physics A: Materials Science and Processing, 2011, 102, 141-145.	2.3	17
15	Surface tension measurement of metastable liquid Tiâ€“Alâ€“Nb alloys. Applied Physics A: Materials Science and Processing, 2011, 105, 211-214.	2.3	17
16	Density and structure of undercooled liquid titanium. Science Bulletin, 2012, 57, 719-723.	1.7	17
17	Understanding atomic-scale phase separation of liquid Fe-Cu alloy. Science Bulletin, 2011, 56, 3416-3419.	1.7	16
18	Density Measurement and Atomic Structure Simulation of Metastable Liquid Ti-Ni Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 5488-5496.	2.2	16

#	Article	IF	Citations
19	Dendritic morphology evolution and microhardness enhancement of rapidly solidified Ni-based superalloys. Science China Technological Sciences, 2019, 62, 1976-1986.	4.0	16
20	Competitive Nucleation and Growth Between the Primary and Peritectic Phases of Rapidly Solidifying Niâ€“Zr Hypoperitectic Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 789-803.	2.2	16
21	Evidence for the transition from primary to peritectic phase growth during solidification of undercooled Ni-Zr alloy levitated by electromagnetic field. Scientific Reports, 2016, 6, 39042.	3.3	15
22	Experimental modulation and theoretical simulation of zonal oscillation for electrostatically levitated metallic droplets at high temperatures. Physical Review E, 2018, 98, .	2.1	15
23	Formation and widening mechanisms of envelope structure and its effect on creep behavior of a multiphase Ni3Al-based intermetallic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 763, 138158.	5.6	15
24	Effects of Undercooling and Cooling Rate on Peritectic Phase Crystallization Within Ni-Zr Alloy Melt. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 499-508.	2.1	14
25	Determining Thermophysical Properties of Normal and Metastable Liquid Zr-Fe Alloys by Electrostatic Levitation Method. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4074-4085.	2.2	14
26	Molecular dynamics calculation of thermophysical properties for a highly reactive liquid. Physical Review E, 2008, 78, 041204.	2.1	13
27	Phase field simulation of monotectic transformation for liquid Ni-Cu-Pb alloys. Science Bulletin, 2009, 54, 183-188.	9.0	11
28	Specific heat measurement of stable and metastable liquid Tiâ€“Al alloys. Applied Physics A: Materials Science and Processing, 2011, 103, 135-137.	2.3	11
29	Simulated evolution process of core-shell microstructures. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 546-552.	0.2	10
30	Geometric optimization of electrostatic fields for stable levitation of metallic materials. Science China Technological Sciences, 2013, 56, 53-59.	4.0	10
31	Optimized Electromagnetic Fields Levitate Bulk Metallic Materials. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2252-2260.	2.1	10
32	Precipitation of intersected plate-like Î³â€² phase in Î² and its effect on creep behavior of multiphase Ni3Al-based intermetallic alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 767, 138439.	5.6	10
33	A CFD Study Assisted with Experimental Confirmation for Liquid Shape Control of Electromagnetically Levitated Bulk Materials. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 688-699.	2.1	10
34	Transition from Crystal to Metallic Glass and Micromechanical Property Change of Fe-B-Si Alloy During Rapid Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 327-337.	2.1	10
35	Rapid monotectic solidification during free fall in a drop tube. Science Bulletin, 2004, 49, 220-224.	1.7	7
36	Surface tension of liquid ternary Feâ€“Cuâ€“Mo alloys measured by electromagnetic levitation oscillating drop method. Journal of Chemical Physics, 2008, 129, 124706.	3.0	7

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37	Thermophysical property of undercooled liquid binary alloy composed of metallic and semiconductor elements. Journal Physics D: Applied Physics, 2009, 42, 035414.	2.8	7
38	Thermophysical properties of stable and metastable liquid copper and nickel by molecular dynamics simulation. Applied Physics A: Materials Science and Processing, 2009, 95, 661-665.	2.3	7
39	An anomalous thermal expansion phenomenon induced by phase transition of Fe-Co-Ni alloys. Journal of Applied Physics, 2018, 124, 215107.	2.5	7
40	Combined Effects of High Undercooling and Large Cooling Rate on the Microstructure Evolution and Hardening Mechanism of Rapidly Solidified Ti-Al Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1242-1253.	2.2	6
41	Liquid Structure and Thermophysical Properties of Ternary Ni-Fe-Co Alloys Explored by Molecular Dynamics Simulations and Electrostatic Levitation Experiments. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 1732-1748.	2.2	6
42	Heat transfer analysis of feedthrough flange under high alternating current condition. Science China Technological Sciences, 2020, 63, 686-692.	4.0	5
43	Composition dependence of thermophysical properties for liquid Zrâ€“V alloys determined at electrostatic levitation state. Journal of Applied Physics, 2022, 131, .	2.5	5
44	Effect of Microstructure Evolution on Micro/Nanoâ€Mechanical Property of Feâ€“Coâ€“Ni Ternary Alloys Solidified under Microgravity Condition. Steel Research International, 2018, 89, 1800053.	1.8	4
45	Peritectic solidification mechanism and accompanying microhardness enhancement of rapidly quenched Niâ€“Zr alloys. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	4
46	Peritectic Solidification Kinetics and Mechanical Property Enhancement in a Rapidly Solidified Tiâ€“48â€‰at% Alâ€“8â€‰at% Nb Alloy via Hierarchical Twin Microstructure. Advanced Engineering Materials, 2021, 23, 2100101.	3.5	4
47	Specific heat and related thermophysical properties of liquid Fe-Cu-Mo alloy. Science in China Series G: Physics, Mechanics and Astronomy, 2007, 50, 397-406.	0.2	3
48	Coupling effect of undercooling and cooling on Tiâ€“Alâ€“V alloy solidification. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	3
49	Effect of High Undercooling on Dendritic Morphology and Mechanical Properties of Rapidly Solidified Inconel X750 Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1784-1794.	2.1	3
50	Specific heat of ternary Agâ€“Siâ€“Ge alloys from 123ÂK to high temperatures: experiment and prediction. Journal of Thermal Analysis and Calorimetry, 2021, 145, 2287-2294.	3.6	3
51	Predicting macroscopic thermal expansion of metastable liquid metals with only one thousand atoms. Science China: Physics, Mechanics and Astronomy, 2014, 57, 2235-2241.	5.1	2
52	Note: Attenuation motion of acoustically levitated spherical rotor. Review of Scientific Instruments, 2016, 87, 116103.	1.3	2
53	Measurement and simulation of specific heat for metastable liquid Ni80Fe10Cu10 alloy. Applied Physics A: Materials Science and Processing, 2011, 105, 987-990.	2.3	1
54	Experimental determination of the Niâ€“Ni5Zr eutectic point for binary Niâ€“Zr alloy phase diagram. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	1

#	Article	IF	Citations
55	Liquid dripping dynamics and levitation stability control of molten Tiâ€“Alâ€“Nb alloy within electromagnetic fields. Physics of Fluids, 2022, 34, 055113.	4.0	1
56	Phase selection and microstructure evolution within eutectic Ti-Si alloy solidified at containerless state. Science China Technological Sciences, 2022, 65, 1587-1598.	4.0	1
57	Containerless processing by single-axis electrostatic levitation. Science Bulletin, 2010, 55, 2755-2755.	1.7	0
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