Huashan Liu

List of Publications by Year in Descending Order

52 papers	470 citations	12 h-index	19 g-index
55 ext. papers	533 ext. citations	2.6 avg, IF	3.48 L-index

#	Paper	IF	Citations
52	Study on the three-dimensional tensile creep anisotropy of a hot-rolled Mg-0.9Mn-1.5Ce alloy sheet. *Journal of Alloys and Compounds*, **2022**, 901, 163655	5.7	1
51	Crystal growth in deeply undercooled NiAl: Signature of the ordering sequence at the interface. *Journal of Chemical Physics*, **2021**, 154, 194503	3.9	0
50	DFT Calculations and Thermodynamic Re-Assessment of the Fe-Y Binary System. *Journal of Phase Equilibria and Diffusion*, **2021**, 42, 348-362	1	0
49	Multi-principal-element products enhancing Au–Sn-bonded joints. *Journal of Alloys and Compounds*, **2021**, 852, 157015	5.7	3
48	Molecular-dynamics simulations on the mesophase transition induced by oscillatory shear in imidazolium-based ionic liquid crystals. *Physical Chemistry Chemical Physics*, **2021**, 23, 6496-6508	3.6	2
47	Increasing shear strength of Au–Sn bonded joint through nano-grained interfacial reaction products. *Journal of Materials Science*, **2021**, 56, 7050-7062	4.3	0
46	Ultrasonic vibration accelerated aging in La-based bulk metallic glasses. *Journal of Non-Crystalline Solids*, **2020**, 535, 119967	3.9	2
45	Atomic dynamics under oscillatory shear in metallic glasses. *Journal of Non-Crystalline Solids*, **2020**, 539, 120069	3.9	4
44	Thermally stable Ni/Au–Sn/Ni joint fabricated via transient liquid-phase bonding. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 773, 138738	5.3	8
43	Measurement of phase equilibria in Zr-Ni-Sc ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2019**, 65, 25-33	1.9	3
42	Experimental investigation of phase equilibria in the Al–Ni–Sc system. *Journal of Materials Science*, **2019**, 54, 10516-10528	4.3	2
41	Experimental Investigation of Phase Equilibria in Zr-Ni-Pt System. *Journal of Phase Equilibria and Diffusion*, **2018**, 39, 301-314	1	
40	Experimental Investigation of Phase Equilibria in Ti–Zr–Ce System. *Journal of Phase Equilibria and Diffusion*, **2018**, 39, 226-236	1	
39	Experimental investigation on phase equilibria of Cu–Ti–Hf system and performance of Cu(Ti, Hf)2 phase. *Journal of Materials Science*, **2018**, 53, 7809-7821	4.3	6
38	Measurement of phase equilibria in Ti-Co-Pt ternary system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2018**, 60, 191-199	1.9	4
37	Microstructure evolution and mechanical reliability of Cu/Au–Sn/Cu joints during transient liquid phase bonding. *Journal of Materials Science*, **2018**, 53, 9287-9296	4.3	20
36	Mechanical reliability of transient liquid phase bonding of Au–Sn solder with Ni(Cu) substrates. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 313-322	2.1	6

35	Experimental investigation and thermodynamic calculation of Ti-Co-Hf system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2018**, 62, 128-140	1.9	6
34	Phase equilibria in the Ge-Mn-Ti ternary system at 973K, 1073K and 1173K. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2017**, 56, 139-149	1.9	
33	Microstructure evolution and shear behavior of Au-Sn/Ni-xCo (x = 20, 40, 60, and 80 at.%) joints soldered at 350 °C. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 7286-7291	2.1	
32	Interfacial Microstructure Evolution and Shear Behavior of Au-Sn/Ni-xCu Joints at 350°C. *Journal of Electronic Materials*, **2017**, 46, 2021-2029	1.9	9
31	Experimental investigation of phase equilibria in the Ti-Al-Mo ternary system. *Journal of Materials Science*, **2017**, 52, 2270-2284	4.3	9
30	Experimental Investigation of Phase Equilibria in the Cu-Co-Zr System. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 855-864	1	2
29	Experimental Study on Phase Equilibria in Ti-Cu-Pt System. *Journal of Phase Equilibria and Diffusion*, **2017**, 38, 466-476	1	2
28	Prediction of interfacial reaction products between metals with same lattice structure through thermodynamic modeling. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2016**, 52, 180-185	1.9	4
27	Quenching and Partitioning of Ultrahigh Carbon (1.69 Mass% C) Steel. *Metallography, Microstructure, and Analysis*, **2016**, 5, 124-134	1.1	
26	Isothermal Sections of Ti-Mn-Zr Ternary System at 1020 and 800 °C. *Journal of Phase Equilibria and Diffusion*, **2015**, 36, 262-273	1	
25	Experimental investigation of phase equilibria in the Cu-Ni-Zr system. *Journal of Materials Science*, **2015**, 50, 7238-7247	4.3	2
24	Strength and fatigue fracture behavior of Al-Zn-Mg-Cu-Zr(-Sn) alloys. *Transactions of Nonferrous Metals Society of China*, **2013**, 23, 2817-2825	3.3	10
23	Thermodynamic assessment of Cu-Ni-Ti ternary system assisted with key measurements. *Thermochimica Acta*, **2013**, 574, 121-132	2.9	14
22	Thermodynamic assessment of Sn-Cu-Ce system. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2013**, 43, 124-132	1.9	7
21	Isothermal Sections of Al-Ni-Zr Ternary System at 850 and 1050 °C. *Journal of Phase Equilibria and Diffusion*, **2013**, 34, 390-402	1	8
20	Fatigue crack propagation behaviour and corrosion resistance of Al-Zn-Mg-Cu-Ti(-Sn) alloys. *Materials Science and Technology*, **2013**, 29, 319-325	1.5	4
19	Thermodynamic modeling of Fe-Ce-Bi system and explanation of interfacial reaction in Fe-45 at%Ce/Bi couple. *Calphad: Computer Coupling of Phase Diagrams and Thermochemistry*, **2012**, 38, 133-139	1.9	6
18	Thermodynamic Description of the Ru-(Si,Ge)-Sn Ternary Systems. *Journal of Phase Equilibria and Diffusion*, **2012**, 33, 97-105	1	3

17	Thermodynamic assessment of Co-Al-W system and solidification of Co-enriched ternary alloys. *Journal of Materials Science*, **2011**, 46, 2611-2621	4.3	34
16	Effect of ultrasonic vibration during casting on microstructures and properties of 7050 aluminum alloy. *Journal of Materials Science*, **2011**, 46, 3923-3927	4.3	13
15	Magnetic properties of Fe78.4Si9.5B9Cu0.6Nb2.5 nanocrystalline alloy powder cores. *Journal of Materials Science*, **2011**, 46, 7567-7572	4.3	10
14	Assessment of the Atomic Mobilities in fcc Cu-Fe and Cu-Ti Alloys. *Journal of Phase Equilibria and Diffusion*, **2011**, 32, 30-38	1	7
13	Effect of multicomponent modifier on microstructure and mechanical properties of high Ni-Cr-Mo cast iron. *Materials Science and Technology*, **2011**, 27, 1840-1845	1.5	9
12	Interfacial Reactions Between Sn-Zn Alloys and Ni Substrates. *Journal of Electronic Materials*, **2010**, 39, 209-214	1.9	20
11	Diffusion and Atomic Mobilities in fcc Ni-Sn Alloys. *Journal of Phase Equilibria and Diffusion*, **2010**, 31, 28-33	1	4
10	Thermodynamic Assessment of the Au-Co-Sn Ternary System. *Journal of Electronic Materials*, **2009**, 38, 2158-2169	1.9	13
9	First-Principle Calculation Assisted Thermodynamic Assessment of the Pt-Pb System. *Journal of Phase Equilibria and Diffusion*, **2009**, 30, 318-322	1	6
8	First-principles calculations of the thermodynamic and elastic properties of the L12-based Al3RE (RE = Sc, Y, La-Lu). *International Journal of Materials Research*, **2008**, 99, 582-588	0.5	29
7	The interfacial reaction between Sn-Ag alloys and Co substrate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 456, 109-113	5.3	28
6	Prediction of formation of intermetallic compounds in diffusion couples. *Journal of Materials Research*, **2007**, 22, 1502-1511	2.5	11
5	Interfacial reaction between Sn-Bi alloy and Ni substrate. *Journal of Electronic Materials*, **2006**, 35, 1842-1847	1.9	25
4	Determination of phase relations in the Co-Cu-Ti system by the diffusion triple technique. *Journal of Materials Research*, **2006**, 21, 2493-2503	2.5	12
3	Thermodynamic modeling of the Au-In-Sn system. *Journal of Electronic Materials*, **2003**, 32, 1290-1296	1.9	63
2	Thermodynamic modeling of the Au-In-Sb ternary system. *Journal of Electronic Materials*, **2003**, 32, 81-88	1.9	26
1	Thermodynamic optimization of the Na2O-B2O3 pseudo-binary system. *Journal of Phase Equilibria and Diffusion*, **2003**, 24, 12-20		13