

# Huashan Liu

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Thermodynamic modeling of the Au-In-Sn system. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 1290-1296	1.9	63
51	Thermodynamic assessment of Co-Al-W system and solidification of Co-enriched ternary alloys. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 2611-2621	4.3	34
50	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> , <b>2008</b> , 99, 582-588	0.5	29
49	The interfacial reaction between Sn-Ag alloys and Co substrate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 456, 109-113	5.3	28
48	Thermodynamic modeling of the Au-In-Sb ternary system. <i>Journal of Electronic Materials</i> , <b>2003</b> , 32, 81-88	1.9	26
47	Interfacial reaction between Sn-Bi alloy and Ni substrate. <i>Journal of Electronic Materials</i> , <b>2006</b> , 35, 1842-1847	1.9	25
46	Microstructure evolution and mechanical reliability of Cu/Au5Sn/Cu joints during transient liquid phase bonding. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 9287-9296	4.3	20
45	Interfacial Reactions Between Sn-Zn Alloys and Ni Substrates. <i>Journal of Electronic Materials</i> , <b>2010</b> , 39, 209-214	1.9	20
44	Thermodynamic assessment of Cu-Ni-Ti ternary system assisted with key measurements. <i>Thermochimica Acta</i> , <b>2013</b> , 574, 121-132	2.9	14
43	Effect of ultrasonic vibration during casting on microstructures and properties of 7050 aluminum alloy. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 3923-3927	4.3	13
42	Thermodynamic Assessment of the Au-Co-Sn Ternary System. <i>Journal of Electronic Materials</i> , <b>2009</b> , 38, 2158-2169	1.9	13
41	Thermodynamic optimization of the Na2O-B2O3 pseudo-binary system. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2003</b> , 24, 12-20		13
40	Determination of phase relations in the Co-Ti-Ti system by the diffusion triple technique. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2493-2503	2.5	12
39	Prediction of formation of intermetallic compounds in diffusion couples. <i>Journal of Materials Research</i> , <b>2007</b> , 22, 1502-1511	2.5	11
38	Strength and fatigue fracture behavior of Al70Ni10Mg10Cu20Zr5(Sn) alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 2817-2825	3.3	10
37	Magnetic properties of Fe78.4Si9.5B9Cu0.6Nb2.5 nanocrystalline alloy powder cores. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 7567-7572	4.3	10
36	Interfacial Microstructure Evolution and Shear Behavior of Au-Sn/Ni-xCu Joints at 350°C. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 2021-2029	1.9	9

35	Experimental investigation of phase equilibria in the Ti-Al-Mo ternary system. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 2270-2284	4.3	9
34	Effect of multicomponent modifier on microstructure and mechanical properties of high Ni-Cr-Mo cast iron. <i>Materials Science and Technology</i> , <b>2011</b> , 27, 1840-1845	1.5	9
33	Isothermal Sections of Al-Ni-Zr Ternary System at 850 and 1050 °C. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2013</b> , 34, 390-402	1	8
32	Thermally stable Ni/Au-Sn/Ni joint fabricated via transient liquid-phase bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 773, 138738	5.3	8
31	Thermodynamic assessment of Sn-Cu-Te system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2013</b> , 43, 124-132	1.9	7
30	Assessment of the Atomic Mobilities in fcc Cu-Fe and Cu-Ti Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2011</b> , 32, 30-38	1	7
29	Experimental investigation on phase equilibria of Cu-Ti-Hf system and performance of Cu(Ti, Hf) <sub>2</sub> phase. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 7809-7821	4.3	6
28	Mechanical reliability of transient liquid phase bonding of Au-Sn solder with Ni(Cu) substrates. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 313-322	2.1	6
27	Experimental investigation and thermodynamic calculation of Ti-Co-Hf system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2018</b> , 62, 128-140	1.9	6
26	Thermodynamic modeling of Fe-Ce-Bi system and explanation of interfacial reaction in Fe-45 at%Ce/Bi couple. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2012</b> , 38, 133-139	1.9	6
25	First-Principle Calculation Assisted Thermodynamic Assessment of the Pt-Pb System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2009</b> , 30, 318-322	1	6
24	Atomic dynamics under oscillatory shear in metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 539, 120069	3.9	4
23	Measurement of phase equilibria in Ti-Co-Pt ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2018</b> , 60, 191-199	1.9	4
22	Fatigue crack propagation behaviour and corrosion resistance of Al-Zn-Mg-Cu-Ti(Sn) alloys. <i>Materials Science and Technology</i> , <b>2013</b> , 29, 319-325	1.5	4
21	Diffusion and Atomic Mobilities in fcc Ni-Sn Alloys. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2010</b> , 31, 28-33	1	4
20	Prediction of interfacial reaction products between metals with same lattice structure through thermodynamic modeling. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2016</b> , 52, 180-185	1.9	4
19	Measurement of phase equilibria in Zr-Ni-Sc ternary system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2019</b> , 65, 25-33	1.9	3
18	Thermodynamic Description of the Ru-(Si,Ge)-Sn Ternary Systems. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2012</b> , 33, 97-105	1	3

17	Multi-principal-element products enhancing AuSn-bonded joints. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 852, 157015	5.7	3
16	Experimental investigation of phase equilibria in the AlNiBc system. <i>Journal of Materials Science</i> , <b>2019</b> , 54, 10516-10528	4.3	2
15	Ultrasonic vibration accelerated aging in La-based bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , <b>2020</b> , 535, 119967	3.9	2
14	Experimental Investigation of Phase Equilibria in the Cu-Co-Zr System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 855-864	1	2
13	Experimental Study on Phase Equilibria in Ti-Cu-Pt System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2017</b> , 38, 466-476	1	2
12	Experimental investigation of phase equilibria in the CuNiZr system. <i>Journal of Materials Science</i> , <b>2015</b> , 50, 7238-7247	4.3	2
11	Molecular-dynamics simulations on the mesophase transition induced by oscillatory shear in imidazolium-based ionic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 6496-6508	3.6	2
10	Study on the three-dimensional tensile creep anisotropy of a hot-rolled Mg-0.9Mn-1.5Ce alloy sheet. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 901, 163655	5.7	1
9	Crystal growth in deeply undercooled NiAl: Signature of the ordering sequence at the interface. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 194503	3.9	0
8	DFT Calculations and Thermodynamic Re-Assessment of the Fe-Y Binary System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2021</b> , 42, 348-362	1	0
7	Increasing shear strength of AuSn bonded joint through nano-grained interfacial reaction products. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 7050-7062	4.3	0
6	Phase equilibria in the Ge-Mn-Ti ternary system at 973K, 1073K and 1173K. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , <b>2017</b> , 56, 139-149	1.9	
5	Microstructure evolution and shear behavior of AuSn/Ni <sub>x</sub> Co (x = 20, 40, 60, and 80 at.%) joints soldered at 350 °C. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2017</b> , 28, 7286-7291	2.1	
4	Isothermal Sections of Ti-Mn-Zr Ternary System at 1020 and 800 °C. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2015</b> , 36, 262-273	1	
3	Experimental Investigation of Phase Equilibria in Zr-Ni-Pt System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2018</b> , 39, 301-314	1	
2	Experimental Investigation of Phase Equilibria in TiZrTe System. <i>Journal of Phase Equilibria and Diffusion</i> , <b>2018</b> , 39, 226-236	1	
1	Quenching and Partitioning of Ultrahigh Carbon (1.69 Mass% C) Steel. <i>Metallography, Microstructure, and Analysis</i> , <b>2016</b> , 5, 124-134	1.1	