Jihua Huang

List of Publications by Citations

159 papers	2,800 citations	27 h-index	44 g-index
166 ext. papers	3,375 ext. citations	4.2 avg, IF	5.49 L-index

#	Paper	IF	Citations
159	Joining mechanism of Ti/Al dissimilar alloys during laser welding-brazing process. *Journal of Alloys and Compounds*, **2011**, 509, 891-898	5.7	162
158	Microstructures and mechanical property of laser butt welding of titanium alloy to stainless steel. *Materials & Design*, **2014**, 53, 504-511		131
157	Hybrid fiber laser□Arc welding of thick section high strength low alloy steel. *Materials & Design*, **2011**, 32, 3399-3413		122
156	Influence of processing parameters on the characteristics of stainless steel/copper laser welding. *Journal of Materials Processing Technology*, **2015**, 222, 43-51	5.3	100
155	Improving interfacial reaction nonhomogeneity during laser welding□brazing aluminum to titanium. *Materials & Design*, **2011**, 32, 4408-4416		97
154	Joints of carbon fiber-reinforced SiC composites to Ti-alloy brazed by Ag□Cu□Ti short carbon fibers. *Journal of Materials Processing Technology*, **2007**, 189, 256-261	5.3	87
153	Microstructural Characteristics of a Stainless Steel/Copper Dissimilar Joint Made by Laser Welding. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 3690-3696	2.3	66
152	Microstructures and mechanical properties of Cf/SiC composite and TC4 alloy joints brazed with (Ti□Zr□Cu□Ni)+W composite filler materials. *Composites Science and Technology*, **2014**, 97, 19-26	8.6	60
151	Interface microstructure and fracture behavior of single/dual-beam laser welded steel-Al dissimilar joint produced with copper interlayer. *International Journal of Advanced Manufacturing Technology*, **2016**, 82, 631-643	3.2	56
150	Influence of a Ni-foil interlayer on Fe/Al dissimilar joint by laser penetration welding. *Materials Letters*, **2012**, 79, 296-299	3.3	56
149	Microstructure and mechanical properties of 5052 aluminum alloy/mild steel butt joint achieved by MIG-TIG double-sided arc welding-brazing. *Materials and Design*, **2017**, 123, 69-79	8.1	50
148	Phase structure and thermophysical properties of co-doped La2Zr2O7 ceramics for thermal barrier coatings. *Ceramics International*, **2012**, 38, 3607-3612	5.1	49
147	Study on MIG-TIG double-sided arc welding-brazing of aluminum and stainless steel. *Materials Letters*, **2016**, 172, 146-148	3.3	49
146	Interaction Between the Growth and Dissolution of Intermetallic Compounds in the Interfacial Reaction Between Solid Iron and Liquid Aluminum. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 5088-5100	2.3	48
145	Microstructures and Mechanical Properties of Laser Penetration Welding Joint With/Without Ni-Foil in an Overlap Steel-on-Aluminum Configuration. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2014**, 45, 3064-3073	2.3	42
144	Growth kinetics and thickness prediction of interfacial intermetallic compounds between solid steel and molten aluminum based on thermophysical simulation in a few seconds. *Materials Characterization*, **2017**, 132, 413-421	3.9	41
143	First-principles investigation on the electronic property and bonding configuration of NbC (111)/NbN (111) interface. *Journal of Alloys and Compounds*, **2016**, 689, 874-884	5.7	39

142	Microstructures and properties of double-ceramic-layer thermal barrier coatings of La2(Zr0.7Ce0.3)2O7/8YSZ made by atmospheric plasma spraying. *Applied Surface Science*, **2015**, 340, 173-181	6.7	35
141	Influence of interfacial reaction on reactive wettability of molten Ag-Cu-X wt.%Ti filler metal on SiC ceramic substrate and mechanism analysis. *Applied Surface Science*, **2018**, 436, 768-778	6.7	33
140	Influence of welding parameters on the IMCs and the mechanical properties of Ti/Al butt joints welded by MIG/TIG double-sided arc welding-brazing. *Journal of Alloys and Compounds*, **2018**, 747, 764-771	5.7	33
139	Combined effects of MIG and TIG arcs on weld appearance and interface properties in Al/steel double-sided butt welding-brazing. *Journal of Materials Processing Technology*, **2017**, 250, 25-34	5.3	33
138	Pore structures of high-porosity NiTi alloys made from elemental powders with NaCl temporary space-holders. *Materials Letters*, **2009**, 63, 2402-2404	3.3	33
137	Microstructures and mechanical properties of copper-stainless steel butt-welded joints by MIG-TIG double-sided arc welding. *Journal of Materials Processing Technology*, **2019**, 265, 87-98	5.3	32
136	Nanoscale structures of the interfacial reaction layers between molten aluminium and solid steel based on thermophysical simulations. *Journal of Alloys and Compounds*, **2018**, 739, 184-189	5.7	31
135	Interfacial microstructures and mechanical property of vaporizing foil actuator welding of aluminum alloy to steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 659, 12-21	5.3	31
134	Microstructure and properties of TiC-Fe cermet coatings by reactive flame spraying using asphalt as carbonaceous precursor. *Ceramics International*, **2007**, 33, 827-835	5.1	30
133	Influence of substrates on the structural and optical properties of ammonia-free chemically deposited CdS films. *Journal of Alloys and Compounds*, **2012**, 530, 81-84	5.7	28
132	Superplastic deformation mechanism and mechanical behavior of a laser-welded Ti-6Al-4V alloy joint. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 541, 110-119	5.3	27
131	A parametric study of the double-ceramic-layer thermal barrier coatings part I: Optimization design of the ceramic layer thickness ratio based on the finite element analysis of thermal insulation (take LZ7C3/8YSZ/NiCoAlY DCL-TBC for an example). *Surface and Coatings Technology*, **2013**, 236, 500-509	4.4	27
130	Butt welding-brazing of steel to aluminum by hybrid laser-CMT. *Journal of Materials Processing Technology*, **2019**, 272, 163-169	5.3	26
129	First-principles calculations on wetting interface between Ag-Cu-Ti filler metal and SiC ceramic: Ag (1 1 1)/SiC (1 1 1) interface and Ag (1 1 1)/TiC (1 1 1) interface. *Applied Surface Science*, **2018**, 462, 55-64	6.7	26
128	Behavior and mechanism of the stress buffer effect of the inside ceramic layer to the top ceramic layer in a double-ceramic-layer thermal barrier coating. *Ceramics International*, **2014**, 40, 2901-2914	5.1	26
127	Microstructure and mechanical properties of the TIG welded joints of fusion CLAM steel. *Fusion Engineering and Design*, **2010**, 85, 1903-1908	1.7	26
126	Active brazing of carbon fiber reinforced SiC composite and 304 stainless steel with Ti-Zr-Be. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 617, 66-72	5.3	25
125	Study on welding-brazing of copper and stainless steel using tungsten/metal gas suspended arc welding. *Materials Letters*, **2015**, 156, 7-9	3.3	25

124	Microstructure evolution and mechanical properties of in-situ bimodal TiC-Fe coatings prepared by reactive plasma spraying. *Ceramics International*, **2019**, 45, 5848-5857	5.1	25
123	Synthesis kinetics and thermophysical properties of La2(Zr0.7Ce0.3)2O7 ceramic for thermal barrier coatings. *Journal of Rare Earths*, **2012**, 30, 228-232	3.7	24
122	A Transient Liquid Phase Sintering Bonding Process Using Nickel-Tin Mixed Powder for the New Generation of High-Temperature Power Devices. *Journal of Electronic Materials*, **2017**, 46, 4152-4159	1.9	24
121	A parametric study of the Double-Ceramic-Layer Thermal Barrier Coating Part II: Optimization selection of mechanical parameters of the inside ceramic layer based on the effect on the stress distribution. *Surface and Coatings Technology*, **2014**, 238, 93-117	4.4	23
120	Reactive composite brazing of C/C composite and GH3044 with Ag□Ti mixed powder filler material. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 759, 303-312	5.3	21
119	Effect of thermal-shearing cycling on Ag3Sn microstructural coarsening in SnAgCu solder. *Journal of Alloys and Compounds*, **2009**, 469, 102-107	5.7	21
118	Microstructures of cerium added laser weld of a TiNi alloy. *Materials Letters*, **2008**, 62, 1551-1553	3.3	20
117	The influence of interface morphology on the stress distribution in double-ceramic-layer thermal barrier coatings. *Ceramics International*, **2015**, 41, 4312-4325	5.1	19
116	Laser penetration welding of an overlap titanium-on-aluminum configuration. *International Journal of Advanced Manufacturing Technology*, **2016**, 87, 3069-3079	3.2	19
115	First-principles calculations on interface structure and fracture characteristic of TiC/TiZrC nano-multilayer film based on virtual crystal approximation. *Journal of Alloys and Compounds*, **2018**, 755, 211-223	5.7	19
114	Microstructure and wear properties of Fe□wt.%Cr□.55wt.%C□wt.%Nb laser cladding coating and the mechanism analysis. *Materials and Design*, **2015**, 88, 1031-1041	8.1	19
113	Joining of C f /SiC composite to Ti-6Al-4V with (Ti-Zr-Cu-Ni)+Ti filler based on in-situ alloying concept. *Ceramics International*, **2017**, 43, 4151-4158	5.1	18
112	Application of Johnson-Mehl-Avrami-Kolmogorov type equation in non-isothermal phase process: Re-discussion. *Materials Letters*, **2016**, 181, 240-243	3.3	18
111	Interfacial characteristics of Ti/Al joint by vaporizing foil actuator welding. *Journal of Materials Processing Technology*, **2019**, 263, 73-81	5.3	18
110	An investigation on butt joints of Ti6Al4V and 5A06 using MIG/TIG double-side arc welding-brazing. *Journal of Manufacturing Processes*, **2017**, 27, 221-225	5	17
109	A novel composite-diffusion brazing process based on transient liquid phase bonding of a Cf/SiC composite to Ti-6Al-4V. *Ceramics International*, **2017**, 43, 13009-13012	5.1	17
108	First-principles calculations on Ni/W interfaces in Steel/Ni/W hot isostatic pressure diffusion bonding layer. *Applied Surface Science*, **2019**, 475, 906-916	6.7	17
107	Optimization selection of the thermal conductivity of the top ceramic layer in the Double-Ceramic-Layer Thermal Barrier Coatings based on the finite element analysis of thermal insulation. *Surface and Coatings Technology*, **2014**, 240, 320-326	4.4	17

106	Joining of Cf/SiC composite to Ti alloy using composite filler materials. *Materials Science and Technology*, **2009**, 25, 1046-1050	1.5	17
105	First-principles calculations on structural energetics of Cu-Ti binary system intermetallic compounds in Ag-Cu-Ti and Cu-Ni-Ti active filler metals. *Ceramics International*, **2017**, 43, 7751-7761	5.1	16
104	Microstructural mechanism and mechanical properties of Cf/SiC composite/TC4 alloy joints composite-diffusion brazed with TiZrCuNi + TiCp composite filler. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 728, 1-9	5.3	16
103	A new partial transient liquid-phase bonding process with powder-mixture interlayer for bonding Cf/SiC composite and Ti□Al□V alloy. *Materials Letters*, **2015**, 143, 237-240	3.3	16
102	Effect of welding speed on the material flow patterns in friction stir welding of AZ31 magnesium alloy. *Rare Metals*, **2007**, 26, 158-162	5.5	16
101	Interfacial structure and properties of Cu/Al joints brazed with Zn-Al filler metals. *Materials Characterization*, **2018**, 138, 78-88	3.9	15
100	Phase evolution and mechanical properties of coarse-grained heat affected zone of a Cu-free high strength low alloy hull structure steel. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2018**, 718, 437-448	5.3	15
99	LaAlO3 as the heterogeneous nucleus of ferrite: Experimental investigation and theoretical calculation. *Journal of Alloys and Compounds*, **2016**, 683, 357-369	5.7	15
98	Reactive flame spraying of TiC□e cermet coating using asphalt as a carbonaceous precursor. *Surface and Coatings Technology*, **2006**, 200, 5328-5333	4.4	15
97	Microstructure of cermet coating prepared by plasma spraying of Fe□iC powder using sucrose as carbonaceous precursor. *Journal of Alloys and Compounds*, **2009**, 472, L1-L5	5.7	13
96	PTA clad (Cr, Fe)7C3/□Fe in situ ceramal composite coating. *International Journal of Minerals, Metallurgy, and Materials*, **2006**, 13, 538-541		13
95	Reactive thermal spraying of TiC-Fe composite coating by using asphalt as carbonaceous precursor. *Journal of Materials Science*, **2005**, 40, 4149-4151	4.3	13
94	Interfacial microstructure evolution and mechanical properties of TC4 alloy/304 stainless steel joints with different joining modes. *Journal of Manufacturing Processes*, **2018**, 36, 115-125	5	13
93	In Situ TiC-Reinforced Ni-Based Composite Coating Prepared by Flame Spraying Using Sucrose as the Source of Carbon. *Journal of Thermal Spray Technology*, **2009**, 18, 103-109	2.5	12
92	Mechanical properties of additive laser-welded NiTi alloy. *Materials Letters*, **2010**, 64, 628-631	3.3	12
91	Joints of Cf/SiC Composite to Ti-Alloy with In-Situ Synthesized TiCx Improved Brazing Layers. *Materials Transactions*, **2006**, 47, 1261-1263	1.3	12
90	Effect of Holding Time on Microstructure and Properties of Transient Liquid-Phase-Bonded Joints of a Single Crystal Alloy. *Journal of Materials Engineering and Performance*, **2015**, 24, 2287-2293	1.6	11
89	Preparation and Properties of a Novel Al-Si-Ge-Zn Filler Metal for Brazing Aluminum. *Journal of Materials Engineering and Performance*, **2015**, 24, 2327-2334	1.6	11

88	Microstructural Evolution of Ni-Sn Transient Liquid Phase Sintering Bond during High-Temperature Aging. *Journal of Electronic Materials*, **2018**, 47, 4642-4652	1.9	11
87	Investigation of microstructural evolution and electrical properties for Ni-Sn transient liquid-phase sintering bonding. *Electronic Materials Letters*, **2017**, 13, 489-496	2.9	11
86	A novel Zn-Al-Si corrosion resistant filler metal for Cu/Al brazing. *Materials Letters*, **2017**, 206, 201-204	3.3	11
85	Microstructure and properties of TiC□e36Ni cermet coatings by reactive plasma spraying using sucrose as carbonaceous precursor. *Applied Surface Science*, **2008**, 254, 6687-6692	6.7	11
84	Brazing of 6061 aluminum alloy with the novel Al-Si-Ge-Zn filler metal. *Materials Letters*, **2016**, 179, 47-51	3.3	11
83	Microstructure and properties of in-situ Ti5Si3-TiC composite coatings by reactive plasma spraying. *Applied Surface Science*, **2020**, 508, 145264	6.7	10
82	Microstructure and superplasticity of laser welded Ti□Al□V alloy. *Materials & Design*, **2010**, 31, 620-623		10
81	Interfacial reaction between solid Ni and liquid Al in tens of seconds: Dissolution kinetics of solid Ni and formation of intermetallic compounds. *Materials Characterization*, **2020**, 159, 110043	3.9	10
80	Correlation between microstructure and mechanical properties of active brazed Cf/SiC composite joints using Ti-Zr-Be. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 667, 332-339	5.3	10
79	Butt brazing of titanium alloys/stainless steel plates by MIG-TIG double-sided arc welding process with copper filler metal. *Journal of Materials Research and Technology*, **2019**, 8, 1566-1570	5.5	9
78	Two-stage superelasticity of a Ce-added laser-welded TiNi alloy. *Materials Letters*, **2008**, 62, 3539-3541	3.3	9
77	Microstructures and Mechanical Properties of Laser Welding Joint of a CLAM Steel with Revised Chemical Compositions. *Journal of Materials Engineering and Performance*, **2016**, 25, 1848-1855	1.6	9
76	Influence of Fe-W intermetallic compound on fracture behavior of Steel/Tungsten HIP diffusion bonding joint: Experimental investigation and first-principles calculation. *Journal of Manufacturing Processes*, **2020**, 55, 131-142	5	9
75	Reactive composite-diffusing brazing of Cf/SiC composite and stainless steel with (Cu□5Ti)+C filler material. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 788, 139582	5.3	8
74	First-principles calculations on physical properties of Ni3Sn binary system intermetallic compounds and Ni/Ni3Sn interfaces in Nickel-Tin TLPS bonding layer. *Intermetallics*, **2018**, 101, 27-38	3.5	8
73	Growth Behavior of Intermetallic Compounds at SnAgCu/Ni and Cu Interfaces. *Journal of Materials Engineering and Performance*, **2010**, 19, 129-134	1.6	8
72	In-situ synthesis and microstructure of TiC□e36Ni composite coatings by reactive detonation-gun spraying. *Materials Letters*, **2008**, 62, 2009-2012	3.3	8
71	Interfacial structure and formation mechanism of tungsten/steel HIP diffusion bonding joints using Ni interlayer. *Journal of Manufacturing Processes*, **2020**, 52, 235-246	5	8

70	Interfacial microstructures and mechanical property of Ni/Al dissimilar butt joint made by laser welding. *Journal of Manufacturing Processes*, **2020**, 50, 17-23	5	8
69	MIG-TIG double-sided arc welding of copper-stainless steel using different filler metals. *Journal of Manufacturing Processes*, **2020**, 55, 208-219	5	8
68	Composite brazing of C/C composite and Ni-based superalloy using (Ag-10Ti)+TiC filler material. *Journal of Materials Processing Technology*, **2021**, 288, 116886	5.3	8
67	An ultra-hard and thick composite coating metallurgically bonded to Ti□Al□V. *Surface and Coatings Technology*, **2015**, 278, 157-162	4.4	7
66	Joining of Cf/SiC composite and stainless steel via Ag+Ti filler in-situ alloying. *Journal of Materials Processing Technology*, **2019**, 274, 116295	5.3	7
65	TLP bonding of SiCp/2618Al composites using mixed Al□Ag□u system powders as interlayers. *Journal of Materials Science*, **2007**, 42, 9746-9749	4.3	7
64	Reactive wetting behavior and mechanism of AlN ceramic by CuNi-Xwt%Ti active filler metal. *Ceramics International*, **2020**, 46, 4289-4299	5.1	7
63	Interfacial ferrite band formation to suppress intergranular liquid copper penetration of solid steel. *Journal of Alloys and Compounds*, **2019**, 773, 719-729	5.7	7
62	Hot isostatic diffusion bonding tungsten alloy and high-strength steel Part I: Design and preparation of Ni-Si-B interlayer by magnetron sputtering. *Journal of Manufacturing Processes*, **2018**, 35, 360-367	5	7
61	Effect of Si addition on corrosion behaviors of Cu/Al dissimilar joint brazed with novel Zn-Al-xSi filler metals. *Journal of Materials Research and Technology*, **2019**, 8, 5171-5179	5.5	6
60	A study of Ni 3 Sn 4 growth dynamics in Ni-Sn TLPS bonding process by differential scanning calorimetry. *Thermochimica Acta*, **2018**, 663, 53-57	2.9	6
59	First-principles investigation on the interaction of Boron atom with Nickel part I: From surface adsorption to bulk diffusion. *Journal of Alloys and Compounds*, **2016**, 663, 116-122	5.7	6
58	Feasibility study of different filler metals on MIG-TIG double-sided arc brazing of titanium alloy-stainless steel. *Journal of Manufacturing Processes*, **2019**, 47, 183-191	5	6
57	A novel process with the characteristics of low-temperature bonding and high-temperature resisting for joining Cf/SiC composite to GH3044 alloy. *Journal of the European Ceramic Society*, **2019**, 39, 5468-5472	6	6
56	Effect mechanism of Ni coating layer on the characteristics of Al/steel dissimilar metal brazing. *Materials Characterization*, **2020**, 167, 110518	3.9	6
55	First-principles calculations on adsorption-diffusion behavior of Boron atom with tungsten surface. *Computational Materials Science*, **2020**, 183, 109908	3.2	6
54	Friction stir butt welding of magnesium alloy to steel by truncated cone-shaped stirring pin with threads. *Journal of Materials Processing Technology*, **2021**, 291, 117038	5.3	6
53	Comparative investigation on RE(La,Ce)AlO3(100)/□Fe(100) interfaces: A first-principles calculation. *Applied Surface Science*, **2016**, 384, 207-216	6.7	6

52	Expanded Lever Rule for Phase Volume Fraction Calculation of High-Strength Low-Alloy Steel in Thermal Simulation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2795-2803	2.3	6
51	Low-Temperature High-Frequency Induction Brazing of 5052 Aluminum Alloy to Stainless Steel with Sn-Zn Solder. *Jom*, **2019**, 71, 1785-1792	2.1	6
50	Microstructure evolution and formation mechanism of graded cemented carbide with cubic-carbide-free layer prepared with TiN or Ti(C,N) free powder mixture. *International Journal of Refractory Metals and Hard Materials*, **2017**, 66, 198-203	4.1	5
49	Join Al□teel dissimilar metal by novel high frequency electric cooperated arc welding. *Science and Technology of Welding and Joining*, **2019**, 24, 721-723	3.7	5
48	Interfacial Behavior and Its Effect on Mechanical Properties of Cf/SiC Composite/TiAl6V4 Joint Brazed with TiZrCuNi. *Journal of Materials Engineering and Performance*, **2017**, 26, 1114-1121	1.6	5
47	Growth Kinetics of Ni3Sn4 in the Solid□iquid Interfacial Reaction. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 3038-3043	2.3	4
46	Influence of heat input on the intermetallic compound characteristics and fracture mechanisms of titanium-stainless steel MIG-TIG double-sided arc welding joints. *Intermetallics*, **2020**, 127, 106973	3.5	4
45	Austenite Grain Size Prediction in the Coarse-Grained Heat-Affected Zone of the Developed Cu-Free High-Strength Low-Alloy Hull Structure Steel. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 1665-1676	2.3	4
44	Study on butt joining 5052 aluminum alloy/Q235 mild steel by MIG-TIG double-sided arc welding-brazing process. *Welding in the World, Le Soudage Dans Le Monde*, **2018**, 62, 145-154	1.9	4
43	Joining of high thermal-expansion mismatched C-SiC composite and stainless steel by an Ag + Ti + Mo mixed powder filler. *Materials Letters*, **2019**, 256, 126632	3.3	4
42	Influence of interfacial configuration on bonding strength and wettability between CuNiTi active filler metal and AlN ceramic. *Ceramics International*, **2020**, 46, 25705-25718	5.1	4
41	Laser beam joining of Al/steel dissimilar metals with Sn-Zn filler wire in overlap configuration. *Journal of Manufacturing Processes*, **2020**, 60, 481-493	5	4
40	Behavior and mechanism for Boron atom diffusing across tungsten grain boundary in the preparation of WB coating: A first-principles calculation. *Applied Surface Science*, **2021**, 543, 148778	6.7	4
39	Structural, mechanical, thermo-physical and electronic properties of □-(CuNi)6Sn5 intermetallic compounds: First-principle calculations. *Journal of Molecular Structure*, **2016**, 1112, 53-62	3.4	4
38	First-principles investigation on the interaction of Boron atom with nickel part II: Absorption and diffusion at grain boundary. *Journal of Alloys and Compounds*, **2017**, 708, 1089-1095	5.7	3
37	New bainite kinetics of high strength low alloy steel in fast cooling process. *Journal of Iron and Steel Research International*, **2017**, 24, 229-233	1.2	3
36	A novel high efficiency low heat input welding method: High frequency electric cooperated arc welding. *Materials Letters*, **2019**, 252, 142-145	3.3	3
35	In situ synthesis of TiC/Ti coatings by reactive plasma spraying. *Materials Science and Technology*, **2020**, 36, 511-515	1.5	3

34	Mechanical activation of pre-alloyed NiTi2 and elemental Ni for the synthesis of NiTi alloys. *Journal of Materials Science*, **2018**, 53, 13432-13441	4.3	3
33	Influence of Ni/Zn double coating on the steel on penetration welding-brazing by CMT arc-laser hybrid heat source. *Optics and Laser Technology*, **2021**, 134, 106602	4.2	3
32	Investigation on wetting behavior and mechanism of AgCu-Xwt.%Ti filler metal/AlN ceramic reactive wetting system: Experiments and first-principles calculations. *Journal of Alloys and Compounds*, **2021**, 869, 159323	5.7	3
31	Studies of Cu-Sn interdiffusion coefficients in Cu3Sn and Cu6Sn5 based on the growth kinetics. *Scripta Materialia*, **2021**, 204, 114138	5.6	3
30	Corrosion behaviors in the brazed seam of Al/Cu dissimilar joints brazed by Zn-Al alloys. *Welding in the World, Le Soudage Dans Le Monde*, **2020**, 64, 1023-1031	1.9	2
29	Preparation of Ni$_3$SiB nano-crystalline film and mechanism analysis using first-principle calculations. *Journal of Alloys and Compounds*, **2020**, 828, 154407	5.7	2
28	. *IEEE Transactions on Components, Hybrids and Manufacturing Technology*, **1992**, 15, 553-558		2
27	Influence of Cu/W interfacial structure on the resistance against harmful helium atoms: A mechanism analysis. *Journal of Alloys and Compounds*, **2022**, 903, 163817	5.7	2
26	Microstructures and mechanical property of 5052 aluminum alloy/Q235 steel butt joint achieved by laser beam joining with Sn-Zn filler wire. *Optics and Laser Technology*, **2021**, 139, 106996	4.2	2
25	Investigation on viscosity, surface tension and non-reactive wettability of melting Ag-Cu-Xwt%Ti active filler metals. *Journal of Alloys and Compounds*, **2019**, 772, 438-446	5.7	2
24	Joining of Cf/SiC composite and 304 stainless steel assisted by surface honeycomb modification. *Journal of the European Ceramic Society*, **2021**, 41, 6824-6833	6	2
23	Interfacial characteristics and mechanical properties of aluminum / steel butt joints fabricated by a newly developed high-frequency electric cooperated arc welding-brazing process. *Journal of Materials Processing Technology*, **2021**, 298, 117317	5.3	2
22	Method for Assessing Grain Boundary Density in High-Strength, High-Toughness Ferritic Weld Metal. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 198-207	2.3	1
21	Influence of Sr additions on microstructure and properties of Al-Si-Cu-Zn filler metal for brazing 6061 aluminum alloy. *Journal of Materials Research*, **2017**, 32, 822-830	2.5	1
20	Influence of interfacial configuration on superhardness effect in TiN (111)/NbN (111) nano-multilayer film: A first-principles calculation. *Materials Today Communications*, **2020**, 24, 101238	2.5	1
19	Evaluation on Dorsey Method in Surface Tension Measurement of Solder Liquids Containing Surfactants. *International Journal of Thermophysics*, **2018**, 39, 1	2.1	1
18	Process optimization for novel tungsten/metal gas suspended arc welding depositing iron base self-fluxing alloy coatings. *International Journal of Advanced Manufacturing Technology*, **2017**, 89, 2481-2489	3.2	1
17	High temperature resistant Ni-Sn transient liquid phase sintering bonding for new generation semiconductor power electronic devices **2015**,		1

16	Structure and elastic property of nanosized complex oxide particles in ferritic/martensitic alloy: An electron energy-loss spectroscopy study. *Journal of Nuclear Materials*, **2011**, 416, 331-334	3.3	1
15	Microstructural evolution and performance of high-tin-content Cu40Sn60 (wt. %) core/shell powder TLPS bonding joints. *Journal of Manufacturing Processes*, **2022**, 75, 853-862	5	1
14	Mechanisms of an innovative hybrid arc welding process in enhancing joint penetration and weld property control through resistive and induction heat. *Journal of Manufacturing Processes*, **2021**, 72, 500-514	5	1
13	Transient Liquid-Phase Sintering Bonding Based on Cu40Sn60 (wt.%) Core/Shell Particles for High-Temperature Power Device Packaging. *Journal of Electronic Materials*, **2021**, 50, 7283	1.9	1
12	Reaction-composite diffusion brazing of C-SiC composite and Ni-based superalloy using mixed (Cu-Ti)+C powder as an interlayer. *Journal of Materials Processing Technology*, **2021**, 300, 117419	5.3	1
11	Joining of Cf/SiC and stainless steel with (Cu□Ti)+C composite filler to obtain a stress-relieved and high-temperature resistant joint. *Journal of Materials Research and Technology*, **2021**, 12, 2026-2041	5.5	1
10	Influence of applied electric field on atom diffusion behavior and mechanism for W/NiFe interface in diffusion bonding of Steel/NiFe interlayer/W by spark plasma sintering. *Applied Surface Science*, **2021**, 541, 148516	6.7	1
9	Effect of Zn Al filler metals on the characteristics of the joint made by the high-frequency induction brazing of 304 stainless steel and 6A02 aluminum. *Journal of Manufacturing Processes*, **2021**, 68, 961-972	5	1
8	Effect of Si content on the microstructure and properties of Ti□SiC composite coatings prepared by reactive plasma spraying. *Ceramics International*, **2021**, 47, 24438-24452	5.1	1
7	Microstructure, properties, and formation mechanisms of tungsten/steel hot isostatic pressing diffusion bonding joint utilizing a Ni-Si-B interlayer. *Journal of Materials Processing Technology*, **2022**, 299, 117303	5.3	1
6	Interfacial microstructure and strengthening mechanism of W/steel diffusion bonding joint using a porous NiFeWss interlayer prepared by in-situ reduction. *Materials Letters*, **2022**, 310, 131501	3.3	0
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