

# Jihua Huang

## List of Publications by Year in Descending Order

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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.

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	Microstructural evolution and performance of high-tin-content Cu <sub>40</sub> Sn <sub>60</sub> (wt. %) core/shell powder TLPS bonding joints. <i>Journal of Manufacturing Processes</i> , <b>2022</b> , 75, 853-862	5	1
158	Influence of Cu/W interfacial structure on the resistance against harmful helium atoms: A mechanism analysis. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 903, 163817	5.7	2
157	Interfacial microstructure and strengthening mechanism of W/steel diffusion bonding joint using a porous NiFeWss interlayer prepared by in-situ reduction. <i>Materials Letters</i> , <b>2022</b> , 310, 131501	3.3	0
156	Comparative study of laser swelding-brazing of aluminum alloy to galvanized steel butted joints using five different filler wires. <i>Optics and Laser Technology</i> , <b>2022</b> , 147, 107618	4.2	0
155	Microstructure, properties, and formation mechanisms of tungsten/steel hot isostatic pressing diffusion bonding joint utilizing a Ni-Si-B interlayer. <i>Journal of Materials Processing Technology</i> , <b>2022</b> , 299, 117303	5.3	1
154	Study on the Kinetics of Ni <sub>3</sub> Sn <sub>4</sub> Growth and Isothermal Solidification in Ni-Sn TLPS Bonding Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2022</b> , 53, 1704-1716	2.3	0
153	Mechanisms of an innovative hybrid arc welding process in enhancing joint penetration and weld property control through resistive and induction heat. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 72, 500-514	5.14	1
152	Transient Liquid-Phase Sintering Bonding Based on Cu <sub>40</sub> Sn <sub>60</sub> (wt.%) Core/Shell Particles for High-Temperature Power Device Packaging. <i>Journal of Electronic Materials</i> , <b>2021</b> , 50, 7283	1.9	1
151	Reaction-composite diffusion brazing of C-SiC composite and Ni-based superalloy using mixed (Cu-Ti)+C powder as an interlayer. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 300, 117419	5.3	1
150	Behavior and mechanism for Boron atom diffusing across tungsten grain boundary in the preparation of WB coating: A first-principles calculation. <i>Applied Surface Science</i> , <b>2021</b> , 543, 148778	6.7	4
149	Joining of Cf/SiC and stainless steel with (CuTi)+C composite filler to obtain a stress-relieved and high-temperature resistant joint. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 12, 2026-2041	5.5	1
148	Friction stir butt welding of magnesium alloy to steel by truncated cone-shaped stirring pin with threads. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 291, 117038	5.3	6
147	Microstructures and mechanical property of 5052 aluminum alloy/Q235 steel butt joint achieved by laser beam joining with Sn-Zn filler wire. <i>Optics and Laser Technology</i> , <b>2021</b> , 139, 106996	4.2	2
146	Composite brazing of C/C composite and Ni-based superalloy using (Ag-10Ti)+TiC filler material. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 288, 116886	5.3	8
145	Influence of Ni/Zn double coating on the steel on penetration welding-brazing by CMT arc-laser hybrid heat source. <i>Optics and Laser Technology</i> , <b>2021</b> , 134, 106602	4.2	3
144	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. <i>Applied Surface Science</i> , <b>2021</b> , 541, 148516	6.7	1
143	Investigation on wetting behavior and mechanism of AgCu-Xwt.%Ti filler metal/AlN ceramic reactive wetting system: Experiments and first-principles calculations. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 869, 159323	5.7	3

142	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. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 68, 961-972 <sup>5</sup>		1
141	Effect of Si content on the microstructure and properties of TiSiC composite coatings prepared by reactive plasma spraying. <i>Ceramics International</i> , <b>2021</b> , 47, 24438-24452	5.1	1
140	Joining of Cf/SiC composite and 304 stainless steel assisted by surface honeycomb modification. <i>Journal of the European Ceramic Society</i> , <b>2021</b> , 41, 6824-6833	6	2
139	Studies of Cu-Sn interdiffusion coefficients in Cu <sub>3</sub> Sn and Cu <sub>6</sub> Sn <sub>5</sub> based on the growth kinetics. <i>Scripta Materialia</i> , <b>2021</b> , 204, 114138	5.6	3
138	Interfacial characteristics and mechanical properties of aluminum / steel butt joints fabricated by a newly developed high-frequency electric cooperated arc welding-brazing process. <i>Journal of Materials Processing Technology</i> , <b>2021</b> , 298, 117317	5.3	2
137	Influence of heat input on the intermetallic compound characteristics and fracture mechanisms of titanium-stainless steel MIG-TIG double-sided arc welding joints. <i>Intermetallics</i> , <b>2020</b> , 127, 106973	3.5	4
136	Influence of interfacial configuration on superhardness effect in TiN (111)/NbN (111) nano-multilayer film: A first-principles calculation. <i>Materials Today Communications</i> , <b>2020</b> , 24, 101238	2.5	1
135	Corrosion behaviors in the brazed seam of Al/Cu dissimilar joints brazed by Zn-Al alloys. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2020</b> , 64, 1023-1031	1.9	2
134	Reactive composite-diffusing brazing of Cf/SiC composite and stainless steel with (Cu <sub>5</sub> Ti)+C filler material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2020</b> , 788, 139582	5.3	8
133	In situ synthesis of TiC/Ti coatings by reactive plasma spraying. <i>Materials Science and Technology</i> , <b>2020</b> , 36, 511-515	1.5	3
132	Preparation of NiSiB nano-crystalline film and mechanism analysis using first-principle calculations. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 828, 154407	5.7	2
131	Austenite Grain Size Prediction in the Coarse-Grained Heat-Affected Zone of the Developed Cu-Free High-Strength Low-Alloy Hull Structure Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 1665-1676	2.3	4
130	Microstructure and properties of in-situ Ti <sub>5</sub> Si <sub>3</sub> -TiC composite coatings by reactive plasma spraying. <i>Applied Surface Science</i> , <b>2020</b> , 508, 145264	6.7	10
129	Interfacial structure and formation mechanism of tungsten/steel HIP diffusion bonding joints using Ni interlayer. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 52, 235-246	5	8
128	Reactive wetting behavior and mechanism of AlN ceramic by CuNi-Xwt%Ti active filler metal. <i>Ceramics International</i> , <b>2020</b> , 46, 4289-4299	5.1	7
127	Interfacial microstructures and mechanical property of Ni/Al dissimilar butt joint made by laser welding. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 50, 17-23	5	8
126	Interfacial reaction between solid Ni and liquid Al in tens of seconds: Dissolution kinetics of solid Ni and formation of intermetallic compounds. <i>Materials Characterization</i> , <b>2020</b> , 159, 110043	3.9	10
125	An investigation on the precipitated phases and mechanical properties of cerium modified 2024 aluminum alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , <b>2020</b> , 51, 1267-1273	0.9	

124	Effect mechanism of Ni coating layer on the characteristics of Al/steel dissimilar metal brazing. <i>Materials Characterization</i> , <b>2020</b> , 167, 110518	3.9	6
123	Influence of interfacial configuration on bonding strength and wettability between CuNiTi active filler metal and AlN ceramic. <i>Ceramics International</i> , <b>2020</b> , 46, 25705-25718	5.1	4
122	Laser beam joining of Al/steel dissimilar metals with Sn-Zn filler wire in overlap configuration. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 60, 481-493	5	4
121	First-principles calculations on adsorption-diffusion behavior of Boron atom with tungsten surface. <i>Computational Materials Science</i> , <b>2020</b> , 183, 109908	3.2	6
120	Influence of Fe-W intermetallic compound on fracture behavior of Steel/Tungsten HIP diffusion bonding joint: Experimental investigation and first-principles calculation. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 55, 131-142	5	9
119	MIG-TIG double-sided arc welding of copper-stainless steel using different filler metals. <i>Journal of Manufacturing Processes</i> , <b>2020</b> , 55, 208-219	5	8
118	Effect of Si addition on corrosion behaviors of Cu/Al dissimilar joint brazed with novel Zn-Al-xSi filler metals. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 5171-5179	5.5	6
117	First-principles calculations on Ni/W interfaces in Steel/Ni/W hot isostatic pressure diffusion bonding layer. <i>Applied Surface Science</i> , <b>2019</b> , 475, 906-916	6.7	17
116	A novel high efficiency low heat input welding method: High frequency electric cooperated arc welding. <i>Materials Letters</i> , <b>2019</b> , 252, 142-145	3.3	3
115	Butt welding-brazing of steel to aluminum by hybrid laser-CMT. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 272, 163-169	5.3	26
114	Growth Kinetics of Ni <sub>3</sub> Sn <sub>4</sub> in the Solid-Liquid Interfacial Reaction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2019</b> , 50, 3038-3043	2.3	4
113	Reactive composite brazing of C/C composite and GH3044 with Ag-Ti mixed powder filler material. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 759, 303-312	5.3	21
112	Butt brazing of titanium alloys/stainless steel plates by MIG-TIG double-sided arc welding process with copper filler metal. <i>Journal of Materials Research and Technology</i> , <b>2019</b> , 8, 1566-1570	5.5	9
111	Interfacial characteristics of Ti/Al joint by vaporizing foil actuator welding. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 263, 73-81	5.3	18
110	Joining of Cf/SiC composite and stainless steel via Ag+Ti filler in-situ alloying. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 274, 116295	5.3	7
109	Join Al-steel dissimilar metal by novel high frequency electric cooperated arc welding. <i>Science and Technology of Welding and Joining</i> , <b>2019</b> , 24, 721-723	3.7	5
108	Feasibility study of different filler metals on MIG-TIG double-sided arc brazing of titanium alloy-stainless steel. <i>Journal of Manufacturing Processes</i> , <b>2019</b> , 47, 183-191	5	6
107	A novel process with the characteristics of low-temperature bonding and high-temperature resisting for joining Cf/SiC composite to GH3044 alloy. <i>Journal of the European Ceramic Society</i> , <b>2019</b> , 39, 5468-5472	6	6

106	Joining of high thermal-expansion mismatched C-SiC composite and stainless steel by an Ag + Ti + Mo mixed powder filler. <i>Materials Letters</i> , <b>2019</b> , 256, 126632	3.3	4
105	Investigation on viscosity, surface tension and non-reactive wettability of melting Ag-Cu-Xwt%Ti active filler metals. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 772, 438-446	5.7	2
104	Low-Temperature High-Frequency Induction Brazing of 5052 Aluminum Alloy to Stainless Steel with Sn-Zn Solder. <i>Jom</i> , <b>2019</b> , 71, 1785-1792	2.1	6
103	Microstructure evolution and mechanical properties of in-situ bimodal TiC-Fe coatings prepared by reactive plasma spraying. <i>Ceramics International</i> , <b>2019</b> , 45, 5848-5857	5.1	25
102	Interfacial ferrite band formation to suppress intergranular liquid copper penetration of solid steel. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 773, 719-729	5.7	7
101	Microstructures and mechanical properties of copper-stainless steel butt-welded joints by MIG-TIG double-sided arc welding. <i>Journal of Materials Processing Technology</i> , <b>2019</b> , 265, 87-98	5.3	32
100	Interfacial structure and properties of Cu/Al joints brazed with Zn-Al filler metals. <i>Materials Characterization</i> , <b>2018</b> , 138, 78-88	3.9	15
99	Phase evolution and mechanical properties of coarse-grained heat affected zone of a Cu-free high strength low alloy hull structure steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 718, 437-448	5.3	15
98	Nanoscale structures of the interfacial reaction layers between molten aluminium and solid steel based on thermophysical simulations. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 739, 184-189	5.7	31
97	Influence of interfacial reaction on reactive wettability of molten Ag-Cu-X wt.%Ti filler metal on SiC ceramic substrate and mechanism analysis. <i>Applied Surface Science</i> , <b>2018</b> , 436, 768-778	6.7	33
96	A study of Ni <sub>3</sub> Sn <sub>4</sub> growth dynamics in Ni-Sn TLPS bonding process by differential scanning calorimetry. <i>Thermochimica Acta</i> , <b>2018</b> , 663, 53-57	2.9	6
95	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. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 764-777	5.7	33
94	Study on butt joining 5052 aluminum alloy/Q235 mild steel by MIG-TIG double-sided arc welding-brazing process. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2018</b> , 62, 145-154	1.9	4
93	First-principles calculations on physical properties of Ni <sub>3</sub> Sn binary system intermetallic compounds and Ni/Ni <sub>3</sub> Sn interfaces in Nickel-Tin TLPS bonding layer. <i>Intermetallics</i> , <b>2018</b> , 101, 27-38	3.5	8
92	Microstructural Evolution of Ni-Sn Transient Liquid Phase Sintering Bond during High-Temperature Aging. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 4642-4652	1.9	11
91	First-principles calculations on interface structure and fracture characteristic of TiC/TiZrC nano-multilayer film based on virtual crystal approximation. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 755, 211-223	5.7	19
90	Evaluation on Dorsey Method in Surface Tension Measurement of Solder Liquids Containing Surfactants. <i>International Journal of Thermophysics</i> , <b>2018</b> , 39, 1	2.1	1
89	Microstructural mechanism and mechanical properties of Cf/SiC composite/TC4 alloy joints composite-diffusion brazed with TiZrCuNi + TiCp composite filler. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2018</b> , 728, 1-9	5.3	16

88	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. <i>Applied Surface Science</i> , <b>2018</b> , 462, 55-64	6.7	26
87	Mechanical activation of pre-alloyed NiTi <sub>2</sub> and elemental Ni for the synthesis of NiTi alloys. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 13432-13441	4.3	3
86	Interfacial microstructure evolution and mechanical properties of TC4 alloy/304 stainless steel joints with different joining modes. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 36, 115-125	5	13
85	Hot isostatic diffusion bonding tungsten alloy and high-strength steel Part I: Design and preparation of Ni-Si-B interlayer by magnetron sputtering. <i>Journal of Manufacturing Processes</i> , <b>2018</b> , 35, 360-367	5	7
84	Joining of C f /SiC composite to Ti-6Al-4V with (Ti-Zr-Cu-Ni)+Ti filler based on in-situ alloying concept. <i>Ceramics International</i> , <b>2017</b> , 43, 4151-4158	5.1	18
83	First-principles investigation on the interaction of Boron atom with nickel part II: Absorption and diffusion at grain boundary. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 708, 1089-1095	5.7	3
82	New bainite kinetics of high strength low alloy steel in fast cooling process. <i>Journal of Iron and Steel Research International</i> , <b>2017</b> , 24, 229-233	1.2	3
81	An investigation on butt joints of Ti6Al4V and 5A06 using MIG/TIG double-side arc welding-brazing. <i>Journal of Manufacturing Processes</i> , <b>2017</b> , 27, 221-225	5	17
80	A novel composite-diffusion brazing process based on transient liquid phase bonding of a Cf/SiC composite to Ti-6Al-4V. <i>Ceramics International</i> , <b>2017</b> , 43, 13009-13012	5.1	17
79	Microstructure evolution and formation mechanism of graded cemented carbide with cubic-carbide-free layer prepared with TiN or Ti(C,N) free powder mixture. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2017</b> , 66, 198-203	4.1	5
78	First-principles calculations on structural energetics of Cu-Ti binary system intermetallic compounds in Ag-Cu-Ti and Cu-Ni-Ti active filler metals. <i>Ceramics International</i> , <b>2017</b> , 43, 7751-7761	5.1	16
77	Microstructure and mechanical properties of 5052 aluminum alloy/mild steel butt joint achieved by MIG-TIG double-sided arc welding-brazing. <i>Materials and Design</i> , <b>2017</b> , 123, 69-79	8.1	50
76	Method for Assessing Grain Boundary Density in High-Strength, High-Toughness Ferritic Weld Metal. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2017</b> , 48, 198-207	2.3	1
75	Influence of Sr additions on microstructure and properties of AlSi <sub>12</sub> FeZn filler metal for brazing 6061 aluminum alloy. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 822-830	2.5	1
74	Investigation of microstructural evolution and electrical properties for Ni-Sn transient liquid-phase sintering bonding. <i>Electronic Materials Letters</i> , <b>2017</b> , 13, 489-496	2.9	11
73	Growth kinetics and thickness prediction of interfacial intermetallic compounds between solid steel and molten aluminum based on thermophysical simulation in a few seconds. <i>Materials Characterization</i> , <b>2017</b> , 132, 413-421	3.9	41
72	A Transient Liquid Phase Sintering Bonding Process Using Nickel-Tin Mixed Powder for the New Generation of High-Temperature Power Devices. <i>Journal of Electronic Materials</i> , <b>2017</b> , 46, 4152-4159	1.9	24
71	Combined effects of MIG and TIG arcs on weld appearance and interface properties in Al/steel double-sided butt welding-brazing. <i>Journal of Materials Processing Technology</i> , <b>2017</b> , 250, 25-34	5.3	33



70	A novel Zn-Al-Si corrosion resistant filler metal for Cu/Al brazing. <i>Materials Letters</i> , <b>2017</b> , 206, 201-204	3.3	11
69	Interfacial Behavior and Its Effect on Mechanical Properties of Cf/SiC Composite/TiAl6V4 Joint Brazed with TiZrCuNi. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 1114-1121	1.6	5
68	Process optimization for novel tungsten/metal gas suspended arc welding depositing iron base self-fluxing alloy coatings. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 89, 2481-2489	2.3	1
67	Microstructure and tensile properties of Ti-6Al-4V alloys manufactured by selective laser melting with optimized processing parameters. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 265, 012015	0.4	
66	Interface microstructure and fracture behavior of single/dual-beam laser welded steel-Al dissimilar joint produced with copper interlayer. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 82, 631-643	3.2	56
65	First-principles investigation on the electronic property and bonding configuration of NbC (111)/NbN (111) interface. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 689, 874-884	5.7	39
64	Laser penetration welding of an overlap titanium-on-aluminum configuration. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 87, 3069-3079	3.2	19
63	LaAlO <sub>3</sub> as the heterogeneous nucleus of ferrite: Experimental investigation and theoretical calculation. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 683, 357-369	5.7	15
62	Application of Johnson-Mehl-Avrami-Kolmogorov type equation in non-isothermal phase process: Re-discussion. <i>Materials Letters</i> , <b>2016</b> , 181, 240-243	3.3	18
61	First-principles investigation on the interaction of Boron atom with Nickel part I: From surface adsorption to bulk diffusion. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 663, 116-122	5.7	6
60	Study on MIG-TIG double-sided arc welding-brazing of aluminum and stainless steel. <i>Materials Letters</i> , <b>2016</b> , 172, 146-148	3.3	49
59	Brazing of 6061 aluminum alloy with the novel Al-Si-Ge-Zn filler metal. <i>Materials Letters</i> , <b>2016</b> , 179, 47-51	3.3	11
58	Comparative investigation on RE(La,Ce)AlO <sub>3</sub> (100)/Fe(100) interfaces: A first-principles calculation. <i>Applied Surface Science</i> , <b>2016</b> , 384, 207-216	6.7	6
57	Expanded Lever Rule for Phase Volume Fraction Calculation of High-Strength Low-Alloy Steel in Thermal Simulation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 2795-2803	2.3	6
56	Microstructures and Mechanical Properties of Laser Welding Joint of a CLAM Steel with Revised Chemical Compositions. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 1848-1855	1.6	9
55	Correlation between microstructure and mechanical properties of active brazed Cf/SiC composite joints using Ti-Zr-Be. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 667, 332-339	5.3	10
54	Structural, mechanical, thermo-physical and electronic properties of $\eta$ -(CuNi) <sub>6</sub> Sn <sub>5</sub> intermetallic compounds: First-principle calculations. <i>Journal of Molecular Structure</i> , <b>2016</b> , 1112, 53-62	3.4	4
53	Interfacial microstructures and mechanical property of vaporizing foil actuator welding of aluminum alloy to steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 659, 12-21	5.3	31

52	Interaction Between the Growth and Dissolution of Intermetallic Compounds in the Interfacial Reaction Between Solid Iron and Liquid Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 5088-5100	2.3	48
51	Effect of Holding Time on Microstructure and Properties of Transient Liquid-Phase-Bonded Joints of a Single Crystal Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 2287-2293	1.6	11
50	Preparation and Properties of a Novel Al-Si-Ge-Zn Filler Metal for Brazing Aluminum. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 2327-2334	1.6	11
49	Influence of processing parameters on the characteristics of stainless steel/copper laser welding. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 222, 43-51	5.3	100
48	Microstructures and properties of double-ceramic-layer thermal barrier coatings of La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> /8YSZ made by atmospheric plasma spraying. <i>Applied Surface Science</i> , <b>2015</b> , 340, 173-181	6.7	35
47	An ultra-hard and thick composite coating metallurgically bonded to Ti-6Al-4V. <i>Surface and Coatings Technology</i> , <b>2015</b> , 278, 157-162	4.4	7
46	The influence of interface morphology on the stress distribution in double-ceramic-layer thermal barrier coatings. <i>Ceramics International</i> , <b>2015</b> , 41, 4312-4325	5.1	19
45	High temperature resistant Ni-Sn transient liquid phase sintering bonding for new generation semiconductor power electronic devices <b>2015</b> ,		1
44	Study on welding/brazing of copper and stainless steel using tungsten/metal gas suspended arc welding. <i>Materials Letters</i> , <b>2015</b> , 156, 7-9	3.3	25
43	Microstructure and wear properties of Fe-0.5wt.%Cr-0.5wt.%Nb laser cladding coating and the mechanism analysis. <i>Materials and Design</i> , <b>2015</b> , 88, 1031-1041	8.1	19
42	A new partial transient liquid-phase bonding process with powder-mixture interlayer for bonding Cf/SiC composite and Ti-6Al-4V alloy. <i>Materials Letters</i> , <b>2015</b> , 143, 237-240	3.3	16
41	Microstructures and Mechanical Properties of Laser Penetration Welding Joint With/Without Ni-Foil in an Overlap Steel-on-Aluminum Configuration. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 3064-3073	2.3	42
40	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. <i>Ceramics International</i> , <b>2014</b> , 40, 2901-2914	5.1	26
39	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. <i>Surface and Coatings Technology</i> , <b>2014</b> , 238, 93-117	4.4	23
38	Microstructures and mechanical property of laser butt welding of titanium alloy to stainless steel. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 504-511		131
37	Microstructures and mechanical properties of Cf/SiC composite and TC4 alloy joints brazed with (Ti-2Zr-0.5Cu-0.5Ni)-W composite filler materials. <i>Composites Science and Technology</i> , <b>2014</b> , 97, 19-26	8.6	60
36	Active brazing of carbon fiber reinforced SiC composite and 304 stainless steel with Ti-2Zr-Be. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 617, 66-72	5.3	25
35	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. <i>Surface and Coatings Technology</i> , <b>2014</b> , 240, 320-326	4.4	17



34	Microstructural Characteristics of a Stainless Steel/Copper Dissimilar Joint Made by Laser Welding. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 3690-3696	2-3	66
33	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). <i>Surface and Coatings Technology</i> , <b>2013</b> , 236, 500-509	4-4	27
32	Synthesis kinetics and thermophysical properties of La <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> ceramic for thermal barrier coatings. <i>Journal of Rare Earths</i> , <b>2012</b> , 30, 228-232	3-7	24
31	Influence of a Ni-foil interlayer on Fe/Al dissimilar joint by laser penetration welding. <i>Materials Letters</i> , <b>2012</b> , 79, 296-299	3-3	56
30	Superplastic deformation mechanism and mechanical behavior of a laser-welded Ti <sub>6</sub> Al <sub>4</sub> V alloy joint. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 541, 110-119	5-3	27
29	Influence of substrates on the structural and optical properties of ammonia-free chemically deposited CdS films. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 530, 81-84	5-7	28
28	Phase structure and thermophysical properties of co-doped La <sub>2</sub> Zr <sub>2</sub> O <sub>7</sub> ceramics for thermal barrier coatings. <i>Ceramics International</i> , <b>2012</b> , 38, 3607-3612	5-1	49
27	Joining mechanism of Ti/Al dissimilar alloys during laser welding-brazing process. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 891-898	5-7	162
26	Structure and elastic property of nanosized complex oxide particles in ferritic/martensitic alloy: An electron energy-loss spectroscopy study. <i>Journal of Nuclear Materials</i> , <b>2011</b> , 416, 331-334	3-3	1
25	Hybrid fiber laser Arc welding of thick section high strength low alloy steel. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 3399-3413		122
24	Improving interfacial reaction nonhomogeneity during laser welding Brazing aluminum to titanium. <i>Materials &amp; Design</i> , <b>2011</b> , 32, 4408-4416		97
23	Growth Behavior of Intermetallic Compounds at SnAgCu/Ni and Cu Interfaces. <i>Journal of Materials Engineering and Performance</i> , <b>2010</b> , 19, 129-134	1-6	8
22	Mechanical properties of additive laser-welded NiTi alloy. <i>Materials Letters</i> , <b>2010</b> , 64, 628-631	3-3	12
21	Microstructure and superplasticity of laser welded Ti <sub>6</sub> Al <sub>4</sub> V alloy. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 620-623		10
20	Microstructure and mechanical properties of the TIG welded joints of fusion CLAM steel. <i>Fusion Engineering and Design</i> , <b>2010</b> , 85, 1903-1908	1-7	26
19	Pore structures of high-porosity NiTi alloys made from elemental powders with NaCl temporary space-holders. <i>Materials Letters</i> , <b>2009</b> , 63, 2402-2404	3-3	33
18	In Situ TiC-Reinforced Ni-Based Composite Coating Prepared by Flame Spraying Using Sucrose as the Source of Carbon. <i>Journal of Thermal Spray Technology</i> , <b>2009</b> , 18, 103-109	2-5	12
17	Joining of Cf/SiC composite to Ti alloy using composite filler materials. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 1046-1050	1-5	17

16	Effect of thermal-shearing cycling on Ag <sub>3</sub> Sn microstructural coarsening in SnAgCu solder. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 469, 102-107	5-7	21
15	Microstructure of cermet coating prepared by plasma spraying of Fe <sub>3</sub> Si <sub>2</sub> powder using sucrose as carbonaceous precursor. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 472, L1-L5	5-7	13
14	Microstructures of cerium added laser weld of a TiNi alloy. <i>Materials Letters</i> , <b>2008</b> , 62, 1551-1553	3-3	20
13	In-situ synthesis and microstructure of TiC/Be <sub>3</sub> Ni composite coatings by reactive detonation-gun spraying. <i>Materials Letters</i> , <b>2008</b> , 62, 2009-2012	3-3	8
12	Two-stage superelasticity of a Ce-added laser-welded TiNi alloy. <i>Materials Letters</i> , <b>2008</b> , 62, 3539-3541	3-3	9
11	Microstructure and properties of TiC/Be <sub>3</sub> Ni cermet coatings by reactive plasma spraying using sucrose as carbonaceous precursor. <i>Applied Surface Science</i> , <b>2008</b> , 254, 6687-6692	6-7	11
10	Microstructure and properties of TiC/Be cermet coatings by reactive flame spraying using asphalt as carbonaceous precursor. <i>Ceramics International</i> , <b>2007</b> , 33, 827-835	5-1	30
9	Joints of carbon fiber-reinforced SiC composites to Ti-alloy brazed by Ag <sub>2</sub> U <sub>3</sub> Si short carbon fibers. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 189, 256-261	5-3	87
8	TLP bonding of SiCp/2618Al composites using mixed Al <sub>2</sub> Ag <sub>2</sub> U system powders as interlayers. <i>Journal of Materials Science</i> , <b>2007</b> , 42, 9746-9749	4-3	7
7	Effect of welding speed on the material flow patterns in friction stir welding of AZ31 magnesium alloy. <i>Rare Metals</i> , <b>2007</b> , 26, 158-162	5-5	16
6	PTA clad (Cr, Fe) <sub>7</sub> C <sub>3</sub> /Fe in situ ceramal composite coating. <i>International Journal of Minerals, Metallurgy, and Materials</i> , <b>2006</b> , 13, 538-541		13
5	Joints of Cf/SiC Composite to Ti-Alloy with In-Situ Synthesized TiCx Improved Brazing Layers. <i>Materials Transactions</i> , <b>2006</b> , 47, 1261-1263	1-3	12
4	Reactive flame spraying of TiC/Be cermet coating using asphalt as a carbonaceous precursor. <i>Surface and Coatings Technology</i> , <b>2006</b> , 200, 5328-5333	4-4	15
3	Reactive thermal spraying of TiC-Fe composite coating by using asphalt as carbonaceous precursor. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 4149-4151	4-3	13
2	. <i>IEEE Transactions on Components, Hybrids and Manufacturing Technology</i> , <b>1992</b> , 15, 553-558		2
1	Enhancing Aluminum Alloy Brazing Joint Strength by Using Zn-Al-Cu Filler Metal. <i>Journal of Materials Engineering and Performance</i> , 1	1-6	