

Jihua Huang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5517264/publications.pdf>

Version: 2024-02-01

166
papers

3,989
citations

126901

33
h-index

175241

52
g-index

166
all docs

166
docs citations

166
times ranked

2093
citing authors

#	ARTICLE	IF	CITATIONS
1	Joining mechanism of Ti/Al dissimilar alloys during laser welding-brazing process. Journal of Alloys and Compounds, 2011, 509, 891-898.	5.5	193
2	Microstructures and mechanical property of laser butt welding of titanium alloy to stainless steel. Materials & Design, 2014, 53, 504-511.	5.1	171
3	Hybrid fiber laser " Arc welding of thick section high strength low alloy steel. Materials & Design, 2011, 32, 3399-3413.	5.1	148
4	Influence of processing parameters on the characteristics of stainless steel/copper laser welding. Journal of Materials Processing Technology, 2015, 222, 43-51.	6.3	141
5	Improving interfacial reaction nonhomogeneity during laser welding"brazing aluminum to titanium. Materials & Design, 2011, 32, 4408-4416.	5.1	120
6	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.	2.2	103
7	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.	6.3	94
8	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.	2.2	77
9	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.	7.8	76
10	Influence of a Ni-foil interlayer on Fe/Al dissimilar joint by laser penetration welding. Materials Letters, 2012, 79, 296-299.	2.6	75
11	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.	3.0	71
12	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.	7.0	65
13	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.	4.4	65
14	Phase structure and thermophysical properties of co-doped La ₂ Zr ₂ O ₇ ceramics for thermal barrier coatings. Ceramics International, 2012, 38, 3607-3612.	4.8	63
15	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.	6.3	62
16	Study on MIG-TIG double-sided arc welding-brazing of aluminum and stainless steel. Materials Letters, 2016, 172, 146-148.	2.6	59
17	First-principles calculations on wetting interface between Ag-Cu-Ti filler metal and SiC ceramic: Ag (1"1)/SiC (1"1) interface and Ag (1"1)/TiC (1"1) interface. Applied Surface Science, 2018, 462, 55-64.	6.1	53
18	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.	2.2	50

#	ARTICLE	IF	CITATIONS
19	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.	5.5	50
20	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.	5.5	48
21	Microstructures and properties of double-ceramic-layer thermal barrier coatings of La ₂ (Zr _{0.7} Ce _{0.3}) ₂ O ₇ /8YSZ made by atmospheric plasma spraying. Applied Surface Science, 2015, 340, 173-181.	6.1	46
22	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.	5.5	43
23	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.	5.6	42
24	Pore structures of high-porosity NiTi alloys made from elemental powders with NaCl temporary space-holders. Materials Letters, 2009, 63, 2402-2404.	2.6	40
25	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.	6.1	40
26	Butt welding-brazing of steel to aluminum by hybrid laser-CMT. Journal of Materials Processing Technology, 2019, 272, 163-169.	6.3	40
27	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.	5.6	39
28	Microstructure and mechanical properties of the TIG welded joints of fusion CLAM steel. Fusion Engineering and Design, 2010, 85, 1903-1908.	1.9	37
29	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.	4.8	37
30	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.	6.3	37
31	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.	5.6	36
32	Study on welding-brazing of copper and stainless steel using tungsten/metal gas suspended arc welding. Materials Letters, 2015, 156, 7-9.	2.6	35
33	Effect of thermal-shearing cycling on Ag ₃ Sn microstructural coarsening in SnAgCu solder. Journal of Alloys and Compounds, 2009, 469, 102-107.	5.5	34
34	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 Tj ETQq0 0 0 rgBT4/0 Overlock 10 Tf 50 1		
35	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.	2.2	33
36	Microstructure and properties of Ti-Fe cermet coatings by reactive flame spraying using asphalt as carbonaceous precursor. Ceramics International, 2007, 33, 827-835.	4.8	32

#	ARTICLE	IF	CITATIONS
37	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> , 2014, 238, 93-117.	4.8	32
38	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> , 2018, 755, 211-223.	5.5	32
39	Influence of substrates on the structural and optical properties of ammonia-free chemically deposited CdS films. <i>Journal of Alloys and Compounds</i> , 2012, 530, 81-84.	5.5	31
40	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> , 2017, 43, 7751-7761.	4.8	31
41	Active brazing of carbon fiber reinforced SiC composite and 304 stainless steel with Ti-Zr-Be. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 617, 66-72.	5.6	30
42	Microstructure evolution and mechanical properties of in-situ bimodal TiC-Fe coatings prepared by reactive plasma spraying. <i>Ceramics International</i> , 2019, 45, 5848-5857.	4.8	30
43	Laser penetration welding of an overlap titanium-on-aluminum configuration. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 3069-3079.	3.0	29
44	First-principles calculations on Ni/W interfaces in Steel/Ni/W hot isostatic pressure diffusion bonding layer. <i>Applied Surface Science</i> , 2019, 475, 906-916.	6.1	29
45	Synthesis kinetics and thermophysical properties of La ₂ (Zr _{0.7} Ce _{0.3}) ₂ O ₇ ceramic for thermal barrier coatings. <i>Journal of Rare Earths</i> , 2012, 30, 228-232.	4.8	26
46	Application of Johnson-Mehl-Avrami-Kolmogorov type equation in non-isothermal phase process: Re-discussion. <i>Materials Letters</i> , 2016, 181, 240-243.	2.6	25
47	Interfacial characteristics of Ti/Al joint by vaporizing foil actuator welding. <i>Journal of Materials Processing Technology</i> , 2019, 263, 73-81.	6.3	25
48	Microstructure and wear properties of Fe-6wt.%Cr-0.55wt.%Xwt.%Nb laser cladding coating and the mechanism analysis. <i>Materials and Design</i> , 2015, 88, 1031-1041.	7.0	24
49	The influence of interface morphology on the stress distribution in double-ceramic-layer thermal barrier coatings. <i>Ceramics International</i> , 2015, 41, 4312-4325.	4.8	24
50	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> , 2017, 43, 13009-13012.	4.8	24
51	Composite brazing of C/C composite and Ni-based superalloy using (Ag-10Ti)+TiC filler material. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116886.	6.3	24
52	Joining of Cf/SiC composite to Ti-6Al-4V with (Ti-Zr-Cu-Ni)+Ti filler based on in-situ alloying concept. <i>Ceramics International</i> , 2017, 43, 4151-4158.	4.8	23
53	Interfacial microstructure evolution and mechanical properties of TC4 alloy/304 stainless steel joints with different joining modes. <i>Journal of Manufacturing Processes</i> , 2018, 36, 115-125.	5.9	23
54	Interfacial ferrite band formation to suppress intergranular liquid copper penetration of solid steel. <i>Journal of Alloys and Compounds</i> , 2019, 773, 719-729.	5.5	23

#	ARTICLE	IF	CITATIONS
55	MIG-TIG double-sided arc welding of copper-stainless steel using different filler metals. Journal of Manufacturing Processes, 2020, 55, 208-219.	5.9	23
56	Microstructures of cerium added laser weld of a TiNi alloy. Materials Letters, 2008, 62, 1551-1553.	2.6	22
57	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.	5.9	22
58	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.	5.6	22
59	Effect mechanism of Ni coating layer on the characteristics of Al/steel dissimilar metal brazing. Materials Characterization, 2020, 167, 110518.	4.4	22
60	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	22
61	Joining of C _f /SiC composite to Ti alloy using composite filler materials. Materials Science and Technology, 2009, 25, 1046-1050.	1.6	21
62	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.	4.8	21
63	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.	5.6	21
64	Interfacial structure and properties of Cu/Al joints brazed with Zn-Al filler metals. Materials Characterization, 2018, 138, 78-88.	4.4	20
65	A new partial transient liquid-phase bonding process with powder-mixture interlayer for bonding Cf/SiC composite and Ti-6Al-4V alloy. Materials Letters, 2015, 143, 237-240.	2.6	19
66	First-principles calculations on physical properties of Ni ₃ Sn binary system intermetallic compounds and Ni/Ni ₃ Sn interfaces in Nickel-Tin TLPS bonding layer. Intermetallics, 2018, 101, 27-38.	3.9	19
67	Microstructure and properties of in-situ Ti ₅ Si ₃ -TiC composite coatings by reactive plasma spraying. Applied Surface Science, 2020, 508, 145264.	6.1	19
68	Interfacial structure and formation mechanism of tungsten/steel HIP diffusion bonding joints using Ni interlayer. Journal of Manufacturing Processes, 2020, 52, 235-246.	5.9	19
69	Effect of welding speed on the material flow patterns in friction stir welding of AZ31 magnesium alloy. Rare Metals, 2007, 26, 158-162.	7.1	18
70	LaAlO ₃ as the heterogeneous nucleus of ferrite: Experimental investigation and theoretical calculation. Journal of Alloys and Compounds, 2016, 683, 357-369.	5.5	17
71	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.	5.8	17
72	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.	5.5	16

#	ARTICLE	IF	CITATIONS
73	Joints of Cf/SiC Composite to Ti-Alloy with In-Situ Synthesized TiC Improved Brazing Layers. <i>Materials Transactions</i> , 2006, 47, 1261-1263.	1.2	15
74	Reactive flame spraying of TiC-Fe cermet coating using asphalt as a carbonaceous precursor. <i>Surface and Coatings Technology</i> , 2006, 200, 5328-5333.	4.8	15
75	Brazing of 6061 aluminum alloy with the novel Al-Si-Ge-Zn filler metal. <i>Materials Letters</i> , 2016, 179, 47-51.	2.6	15
76	Correlation between microstructure and mechanical properties of active brazed Cf/SiC composite joints using Ti-Zr-Be. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 332-339.	5.6	15
77	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> , 2020, 159, 110043.	4.4	15
78	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> , 2020, 127, 106973.	3.9	15
79	PTA clad (Cr, Fe) ₇ C ₃ /Fe in situ ceramal composite coating. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2006, 13, 538-541.	0.2	14
80	Mechanical properties of additive laser-welded NiTi alloy. <i>Materials Letters</i> , 2010, 64, 628-631.	2.6	14
81	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> , 2015, 24, 2287-2293.	2.5	14
82	Preparation and Properties of a Novel Al-Si-Ge-Zn Filler Metal for Brazing Aluminum. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2327-2334.	2.5	14
83	Reactive wetting behavior and mechanism of AlN ceramic by CuNi-Xwt%Ti active filler metal. <i>Ceramics International</i> , 2020, 46, 4289-4299.	4.8	14
84	Reactive composite-diffusing brazing of Cf/SiC composite and stainless steel with (Cu-15Ti)+C filler material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139582.	5.6	14
85	Friction stir butt welding of magnesium alloy to steel by truncated cone-shaped stirring pin with threads. <i>Journal of Materials Processing Technology</i> , 2021, 291, 117038.	6.3	14
86	Studies of Cu-Sn interdiffusion coefficients in Cu ₃ Sn and Cu ₆ Sn ₅ based on the growth kinetics. <i>Scripta Materialia</i> , 2021, 204, 114138.	5.2	14
87	Reactive thermal spraying of TiC-Fe composite coating by using asphalt as carbonaceous precursor. <i>Journal of Materials Science</i> , 2005, 40, 4149-4151.	3.7	13
88	Microstructure and properties of TiC-Fe ₃₆ Ni cermet coatings by reactive plasma spraying using sucrose as carbonaceous precursor. <i>Applied Surface Science</i> , 2008, 254, 6687-6692.	6.1	13
89	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> , 2009, 18, 103-109.	3.1	13
90	Microstructure of cermet coating prepared by plasma spraying of Fe-Ti-C powder using sucrose as carbonaceous precursor. <i>Journal of Alloys and Compounds</i> , 2009, 472, L1-L5.	5.5	13

#	ARTICLE	IF	CITATIONS
91	Microstructure and superplasticity of laser welded Ti-6Al-4V alloy. <i>Materials & Design</i> , 2010, 31, 620-623.	5.1	13
92	Comparative investigation on RE(La,Ce)AlO ₃ (100)/ β -Fe(100) interfaces: A first-principles calculation. <i>Applied Surface Science</i> , 2016, 384, 207-216.	6.1	13
93	Investigation of microstructural evolution and electrical properties for Ni-Sn transient liquid-phase sintering bonding. <i>Electronic Materials Letters</i> , 2017, 13, 489-496.	2.2	13
94	A novel Zn-Al-Si corrosion resistant filler metal for Cu/Al brazing. <i>Materials Letters</i> , 2017, 206, 201-204.	2.6	13
95	Microstructural Evolution of Ni-Sn Transient Liquid Phase Sintering Bond during High-Temperature Aging. <i>Journal of Electronic Materials</i> , 2018, 47, 4642-4652.	2.2	13
96	Feasibility study of different filler metals on MIG-TIG double-sided arc brazing of titanium alloy-stainless steel. <i>Journal of Manufacturing Processes</i> , 2019, 47, 183-191.	5.9	13
97	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> , 2019, 8, 5171-5179.	5.8	13
98	Interfacial microstructures and mechanical property of Ni/Al dissimilar butt joint made by laser welding. <i>Journal of Manufacturing Processes</i> , 2020, 50, 17-23.	5.9	13
99	Structural, mechanical, thermo-physical and electronic properties of β -(CuNi) ₆ Sn ₅ intermetallic compounds: First-principle calculations. <i>Journal of Molecular Structure</i> , 2016, 1112, 53-62.	3.6	12
100	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> , 2019, 39, 5468-5472.	5.7	12
101	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> , 2022, 299, 117303.	6.3	12
102	In-situ synthesis and microstructure of Ti-Fe ₃₆ Ni composite coatings by reactive detonation-gun spraying. <i>Materials Letters</i> , 2008, 62, 2009-2012.	2.6	11
103	Joining of Cf/SiC composite and 304 stainless steel assisted by surface honeycomb modification. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6824-6833.	5.7	11
104	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> , 2022, 300, 117419.	6.3	11
105	Two-stage superelasticity of a Ce-added laser-welded TiNi alloy. <i>Materials Letters</i> , 2008, 62, 3539-3541.	2.6	10
106	Growth Behavior of Intermetallic Compounds at SnAgCu/Ni and Cu Interfaces. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 129-134.	2.5	10
107	Joining of Cf/SiC composite and stainless steel via Ag+Ti filler in-situ alloying. <i>Journal of Materials Processing Technology</i> , 2019, 274, 116295.	6.3	10
108	First-principles calculations on adsorption-diffusion behavior of Boron atom with tungsten surface. <i>Computational Materials Science</i> , 2020, 183, 109908.	3.0	10

#	ARTICLE	IF	CITATIONS
109	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> , 2021, 68, 961-972.	5.9	10
110	Effect of Si content on the microstructure and properties of Ti-Si-C composite coatings prepared by reactive plasma spraying. <i>Ceramics International</i> , 2021, 47, 24438-24452.	4.8	10
111	Microstructures and Mechanical Properties of Laser Welding Joint of a CLAM Steel with Revised Chemical Compositions. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1848-1855.	2.5	9
112	A study of Ni ₃ Sn ₄ growth dynamics in Ni-Sn TLPS bonding process by differential scanning calorimetry. <i>Thermochimica Acta</i> , 2018, 663, 53-57.	2.7	9
113	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> , 2018, 35, 360-367.	5.9	9
114	Low-Temperature High-Frequency Induction Brazing of 5052 Aluminum Alloy to Stainless Steel with Sn-Zn Solder. <i>Jom</i> , 2019, 71, 1785-1792.	1.9	9
115	Influence of interfacial configuration on bonding strength and wettability between CuNiTi active filler metal and AlN ceramic. <i>Ceramics International</i> , 2020, 46, 25705-25718.	4.8	9
116	Microstructural evolution and performance of high-tin-content Cu ₄₀ Sn ₆₀ (wt. %) core/shell powder TLPS bonding joints. <i>Journal of Manufacturing Processes</i> , 2022, 75, 853-862.	5.9	9
117	An ultra-hard and thick composite coating metallurgically bonded to Ti-6Al-4V. <i>Surface and Coatings Technology</i> , 2015, 278, 157-162.	4.8	8
118	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> , 2016, 663, 116-122.	5.5	8
119	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> , 2017, 66, 198-203.	3.8	8
120	Laser beam joining of Al/steel dissimilar metals with Sn-Zn filler wire in overlap configuration. <i>Journal of Manufacturing Processes</i> , 2020, 60, 481-493.	5.9	8
121	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> , 2021, 543, 148778.	6.1	8
122	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> , 2021, 139, 106996.	4.6	8
123	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> , 2021, 298, 117317.	6.3	8
124	TLP bonding of SiCp/2618Al composites using mixed Al-Ag-Cu system powders as interlayers. <i>Journal of Materials Science</i> , 2007, 42, 9746-9749.	3.7	7
125	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> , 2016, 47, 2795-2803.	2.2	7
126	Joining of high thermal-expansion mismatched C-SiC composite and stainless steel by an Ag-Ti-Mo mixed powder filler. <i>Materials Letters</i> , 2019, 256, 126632.	2.6	7

#	ARTICLE	IF	CITATIONS
127	Growth Kinetics of Ni ₃ Sn ₄ in the Solid-Liquid Interfacial Reaction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 3038-3043.	2.2	7
128	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.	2.2	7
129	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.	4.6	7
130	Comparative study of laser swelding-brazing of aluminum alloy to galvanized steel butted joints using five different filler wires. Optics and Laser Technology, 2022, 147, 107618.	4.6	7
131	Interfacial Behavior and Its Effect on Mechanical Properties of Cf/SiC Composite/TiAl ₆ V ₄ Joint Brazed with TiZrCuNi. Journal of Materials Engineering and Performance, 2017, 26, 1114-1121.	2.5	6
132	Transient Liquid-Phase Sintering Bonding Based on Cu ₄₀ Sn ₆₀ (wt.%) Core/Shell Particles for High-Temperature Power Device Packaging. Journal of Electronic Materials, 2021, 50, 7283-7292.	2.2	6
133	Influence of Cu/W interfacial structure on the resistance against harmful helium atoms: A mechanism analysis. Journal of Alloys and Compounds, 2022, 903, 163817.	5.5	6
134	A dislocation model of shear fatigue damage and life prediction of SMT solder joints under thermal cycling. IEEE Transactions on Components, Hybrids and Manufacturing Technology, 1992, 15, 553-558.	0.4	5
135	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.	5.5	5
136	Mechanical activation of pre-alloyed NiTi ₂ and elemental Ni for the synthesis of NiTi alloys. Journal of Materials Science, 2018, 53, 13432-13441.	3.7	5
137	Join Al-steel dissimilar metal by novel high frequency electric cooperated arc welding. Science and Technology of Welding and Joining, 2019, 24, 721-723.	3.1	5
138	A novel high efficiency low heat input welding method: High frequency electric cooperated arc welding. Materials Letters, 2019, 252, 142-145.	2.6	5
139	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.	5.5	5
140	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.	6.1	5
141	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.	5.9	5
142	Influence of Sr additions on microstructure and properties of Al-Si-Ge-Zn filler metal for brazing 6061 aluminum alloy. Journal of Materials Research, 2017, 32, 822-830.	2.6	4
143	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.	2.5	4
144	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.	2.5	4

#	ARTICLE	IF	CITATIONS
145	In situ synthesis of TiC/Ti coatings by reactive plasma spraying. <i>Materials Science and Technology</i> , 2020, 36, 511-515.	1.6	4
146	Joining of Cf/SiC and stainless steel with (Cu+Ti)+C composite filler to obtain a stress-relieved and high-temperature resistant joint. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2026-2041.	5.8	4
147	High temperature resistant Ni-Sn transient liquid phase sintering bonding for new generation semiconductor power electronic devices. , 2015, , .		3
148	New bainite kinetics of high strength low alloy steel in fast cooling process. <i>Journal of Iron and Steel Research International</i> , 2017, 24, 229-233.	2.8	3
149	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> , 2017, 48, 198-207.	2.2	3
150	Preparation of Ni+Si+B nano-crystalline film and mechanism analysis using first-principle calculations. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154407.	5.5	3
151	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> , 2022, 310, 131501.	2.6	3
152	Study on microstructure evolution and reaction mechanism of in-flight Ti+Si+C agglomerates during reactive plasma spraying using in situ water quenching. <i>Ceramics International</i> , 2022, 48, 18866-18875.	4.8	3
153	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> , 2011, 416, 331-334.	2.7	2
154	Evaluation on Dorsey Method in Surface Tension Measurement of Solder Liquids Containing Surfactants. <i>International Journal of Thermophysics</i> , 2018, 39, 1.	2.1	2
155	Influence of interfacial configuration on superhardness effect in TiN (111)/NbN (111) nano-multilayer film: A first-principles calculation. <i>Materials Today Communications</i> , 2020, 24, 101238.	1.9	2
156	Mechanical properties and oxidation behavior of SiC_f/Ti₃SiC₂ composites prepared by hot isostatic pressing. <i>International Journal of Applied Ceramic Technology</i> , 2022, 19, 545-556.	2.1	2
157	Microstructure and Intermetallic Growth at the Sn-Ag-Cu/Ni Interface after Thermal-shearing Cycling. , 0, , .		1
158	Growth Behavior of IMCs and Fracture Forming Mechanism at Sn-Ag-Cu/Cu Interfaces under Thermal-Shearing Cycling Condition. , 2006, , .		1
159	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> , 2017, 89, 2481-2489.	3.0	1
160	THERMAL SHOCK RESISTANCE OF La ₂ (Zr _{0.7} Ce _{0.3}) ₂ O ₇ THERMAL BARRIER COATING PREPARED BY ATMOSPHERIC PLASMA SPRAYING. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2012, 48, 965.	0.3	1
161	Enhancing Aluminum Alloy Brazing Joint Strength by Using Zn-Al-Cu Filler Metal. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2410-2418.	2.5	1
162	Study on the Kinetics of Ni ₃ Sn ₄ Growth and Isothermal Solidification in Ni-Sn TLPS Bonding Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022, 53, 1704-1716.	2.2	1

#	ARTICLE	IF	CITATIONS
163	Effect of Thermal-Shearing Induced Microstructural Coarsening on SnAgCu Microelectronic Solder. , 2007, , .		0
164	Microstructural Transformation on SnAgCu/Cu Interface Induced by Thermal-shearing Cycling. , 2008, , .		0
165	Microstructure and tensile properties of Ti-6Al-4V alloys manufactured by selective laser melting with optimized processing parameters. IOP Conference Series: Materials Science and Engineering, 2017, 265, 012015.	0.6	0
166	An investigation on the precipitated phases and mechanical properties of cerium modified 2024 aluminum alloy. Materialwissenschaft Und Werkstofftechnik, 2020, 51, 1267-1273.	0.9	0