

Yi-Fu Shen

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.

168
papers

3,019
citations

30
h-index

45
g-index

172
ext. papers

3,651
ext. citations

3.9
avg, IF

5.9
L-index

#	Paper	IF	Citations
168	Inhomogeneous microstructure and properties along the thickness of stir zone in friction stir welded SAF 2507 super duplex stainless steel joint. <i>Journal of Manufacturing Processes</i> , 2022 , 73, 611-623	5	2
167	Effect of inhomogeneous fiber structure on the mechanical properties of friction stir welded SAF 2507 super duplex stainless steel. <i>Materials Chemistry and Physics</i> , 2022 , 283, 126026	4.4	0
166	Research on hot cracks and microstructure of Inconel 100 by laser micromelting repairing. <i>Journal of Laser Applications</i> , 2021 , 33, 042057	2.1	
165	Microstructural evolution and mechanical behavior of powder metallurgy based SiC/AlMg-Sc-Zr nanocomposite subjected to multi-pass friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 806, 140831	5.3	5
164	Microstructural evolution and mechanical properties of the friction stir welded Al Cu dissimilar joint enhanced by post-weld heat treatment. <i>Materials Characterization</i> , 2021 , 174, 110998	3.9	6
163	Friction stir spot welding of dissimilar ABS and PA6 by a tool with newly designed tooth-shaped flat pin. <i>Journal of Manufacturing Processes</i> , 2021 , 66, 521-531	5	0
162	Conventional and swing friction stir spot welding of aluminum alloy to magnesium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 116, 2401-2412	3.2	2
161	High temperature oxidation behaviour of mono-layer and bi-layer coatings. <i>Surface Engineering</i> , 2021 , 37, 120-128	2.6	1
160	Influence of diamond content and milling duration on microstructure and thermal conductivity of Ti-coated diamond/copper composite coating on copper substrate. <i>Materials Chemistry and Physics</i> , 2021 , 259, 124017	4.4	8
159	Interfacial properties of friction stir lap welded 430/304 stainless steels using Cu interlayer. <i>Materials Letters</i> , 2021 , 284, 129027	3.3	5
158	Effect of material position on microstructure and mechanical properties of friction stir welded dissimilar austenite/ferrite stainless steels joints. <i>Journal of Adhesion Science and Technology</i> , 2021 , 35, 1320-1336	2	3
157	Influence of preheating temperature on the friction stir welded ME20M magnesium alloy. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 136-143	3.7	0
156	Thermal conductivity of graphene nanoplates reinforced Cu Cr composite coatings by mechanical alloying method. <i>Surface and Coatings Technology</i> , 2021 , 405, 126554	4.4	3
155	Study of friction stir spot welding for thermotolerant engineering thermoplastic polyimide joints. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2021 , 235, 1810-1817	2.4	1
154	Enhancing metallurgical and mechanical properties of friction stir butt welded joints of AlCu via cold sprayed Ni interlayer. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 140992	5.3	12
153	A novel two-step method to prepare fine-grained SiC/Al-Mg-Sc-Zr nanocomposite: Processing, microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 823, 141764	5.3	2
152	Friction forge riveting: A new joining method for connecting 40Cr steel and TC4 titanium alloy. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 79-89	5	1

151	Friction forge riveting of AA6061-T6 and TA2 plates with large diameter TA2 titanium rivets. <i>Journal of Materials Processing Technology</i> , 2021 , 294, 117119	5.3	2
150	Microstructure and mechanical performance of ODS superalloys manufactured by selective laser melting. <i>Optics and Laser Technology</i> , 2021 , 144, 107423	4.2	4
149	Influence of welding parameters on morphology and mechanical performance of friction spot pressure welded thin monomer cast nylon 6 sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4767-4775	3.2	1
148	Effects of beam offset on the macro defects, microstructure and mechanical behaviors in dissimilar laser beam welds of SDSS2507 and Q235. <i>Journal of Manufacturing Processes</i> , 2020 , 55, 335-347	5	11
147	Friction plug repair welding of glass fiber-reinforced polyamide 6: Investigation of morphology, microstructure, and mechanical properties. <i>Journal of Reinforced Plastics and Composites</i> , 2020 , 39, 805-816	2.9	2
146	Microstructures evolution, formation mechanisms and properties of SiCp/ Al composite coatings on Ti-6Al-4v substrate via mechanical alloying method. <i>Surfaces and Interfaces</i> , 2020 , 19, 100487	4.1	3
145	Preparation of Diamond Reinforced NiCoCrTi0.5Nb0.5 High-Entropy Alloy Coating by Laser Cladding: Microstructure and Wear Behavior. <i>Journal of Thermal Spray Technology</i> , 2020 , 29, 1827-1837	2.5	2
144	The role of tool offset on the microstructure and mechanical properties of Al/Cu friction stir welded joints. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 154045	5.7	27
143	Microstructure and properties of laser-clad FeNiCoCrTi0.5Nb0.5 high-entropy alloy coating. <i>Materials Science and Technology</i> , 2020 , 36, 811-818	1.5	6
142	Simulation and Experimental Study on Temperature and Flow Field in Friction Stir Welding of TC4 Titanium Alloy Process. <i>Materials Transactions</i> , 2020 , 61, 2378-2385	1.3	0
141	Effect of process parameters on the microstructure and properties of laser-clad FeNiCoCrTi0.5 high-entropy alloy coating. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 630-639 ^{3.1}	3.1	10
140	Microstructure and thermal conductivity of Cu-Cu2AlNiZnAg/diamond coatings on pure copper substrate via high-energy mechanical alloying method. <i>Surfaces and Interfaces</i> , 2020 , 21, 100742	4.1	1
139	Friction lap welding AA6061 alloy and GFR nylon: Influence of welding parameters and groove features on joint morphology and mechanical property. <i>Journal of Materials Processing Technology</i> , 2020 , 278, 116458	5.3	10
138	Microstructures and properties of TiCp/Al coating synthesized on Ti6Al4V alloy substrate using mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152223	5.7	9
137	Effect of iron content on microstructure and properties of Fe _x Ni ₂ Co ₂ CrTiNb high-entropy alloy coating. <i>Optik</i> , 2020 , 204, 164168	2.5	5
136	Friction stir welding of Ti-6Al-4V alloy: Friction tool, microstructure, and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2020 , 58, 344-354	5	17
135	Effect of Annealing Treatment on Microstructure, Mechanical Properties and Oxidation Resistance of SiCp/Al Coating Synthesized on Ti6Al4V Alloy Substrate by Mechanical Alloying Method. <i>Oxidation of Metals</i> , 2020 , 94, 127-146	1.6	
134	Self-consumption friction plug spot welding of Ti6Al4V plates. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14283-14293	5.5	2

133	Enhanced strength and ductility in dissimilar friction stir butt welded Al/Cu joints by addition of a cold-spray Ni interlayer. <i>Journal of Manufacturing Processes</i> , 2020 , 60, 573-577	5	6
132	Effect of Welding Parameters on Friction Stir Welded Ti6Al4V Joints: Temperature, Microstructure and Mechanical Properties. <i>Metals</i> , 2020 , 10, 940	2.3	2
131	Producing of FeCoNiCrAl high-entropy alloy reinforced Al composites via friction stir processing technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 110, 569-580	3.2	5
130	Tribological behavior of diamond reinforced FeNiCoCrTi0.5 carbonized high-entropy alloy coating. <i>Surface and Coatings Technology</i> , 2020 , 401, 126233	4.4	12
129	Microstructure and Mechanical Properties of Friction Stir Welded Austenitic-Ferritic Stainless Steels Using Staggered Joint Configuration. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 5263-5272	1.6	1
128	Effect of Traverse Speed on the Defect Characteristic, Microstructure, and Mechanical Property of Friction Stir Welded T-Joints of Dissimilar Mg/Al Alloy. <i>Advances in Materials Science and Engineering</i> , 2020 , 2020, 1-15	1.5	
127	Laser cladding composite coating on mild steel using NiCrTiB4C powder. <i>Surface Engineering</i> , 2020 , 36, 1278-1284	2.6	8
126	Microstructure and mechanical properties of TiCu amorphous coating synthesized on pure Cu substrate by mechanical alloying method. <i>Rare Metals</i> , 2020 , 39, 1222-1228	5.5	4
125	Friction plug welding of glass fiber reinforced PA6 sheets using a newly designed tool. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 614-623	5	1
124	Effect of Nb content on microstructure and properties of laser cladding FeNiCoCrTi0.5Nbx high-entropy alloy coating. <i>Optik</i> , 2019 , 198, 163316	2.5	17
123	Effects of graphite and graphene spatial structure on the TiC crystal structure and the properties of composite coatings. <i>Surface and Coatings Technology</i> , 2019 , 377, 124909	4.4	7
122	Influences of friction stir processing parameters on microstructure and mechanical properties of SiC/Al composites fabricated by multi-pin tool. <i>Journal of Manufacturing Processes</i> , 2019 , 38, 279-289	5	28
121	Wear resistance and thermal conductivity of diamond/Cu-1Cr mechanical milled coatings after high temperature annealing. <i>Diamond and Related Materials</i> , 2019 , 97, 107438	3.5	4
120	Influence of welding parameters and tool geometry on the morphology and mechanical performance of ABS friction stir spot welds. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 2319-2330	3.2	11
119	Laser cladding composite coatings by NiCrTiB4C with different process parameters. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 898-906	4.1	9
118	A novel method to improve the integrity of friction stir welded joints of aluminum alloy: microstructure and mechanical properties. <i>Materials Research Express</i> , 2019 , 6, 086575	1.7	1
117	Effect of traverse speed in submerged friction stir welding ME20M magnesium alloy: microstructure and mechanical properties. <i>Materials Research Express</i> , 2019 , 6, 086579	1.7	2
116	Oxidation behavior of Cr-AlSi12 composite coatings on Ti-6Al-4V alloy substrate fabricated via high-energy mechanical alloying method. <i>Surface and Coatings Technology</i> , 2019 , 367, 212-224	4.4	7

115	Microstructures and mechanical properties of submerged friction stir welding of ME20M Magnesium alloy 2019 ,		2
114	Microstructure and mechanical properties of fine-grained aluminum matrix composite reinforced with nitinol shape memory alloy particulates produced by underwater friction stir processing. <i>Journal of Alloys and Compounds</i> , 2019 , 786, 257-271	5.7	29
113	Fabrication of Al7075/PI composites base on FSW technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4377-4386	3.2	3
112	Investigation of microstructure and mechanical properties of SiC/Al surface composites fabricated by friction stir processing. <i>Materials Research Express</i> , 2019 , 6, 106576	1.7	4
111	Effect of Rotational Speed on Microstructure and Mechanical Properties in Submerged Friction Stir Welding of ME20M Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4610-4619	1.6	4
110	Effect of tool probe with a disc at the top on the microstructure and mechanical properties of FSW joints for 6061-T6 aluminum alloy. <i>Journal of Adhesion Science and Technology</i> , 2019 , 33, 2462-2475	2	11
109	Laser cladding Ni-Ti-Cr alloy coatings with different process parameters. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 1710-1718	4.1	7
108	Consumable friction plug welding of TC4 plate: parameters, microstructures, and mechanical properties. <i>Materials Research Express</i> , 2019 , 6, 116520	1.7	1
107	The mechanical model and refinement mechanisms of graphite particle of nodular cast iron during the friction stir processing. <i>Materials Research Express</i> , 2019 , 6, 126573	1.7	
106	Influence of cooling water temperature on ME20M magnesium alloy submerged friction stir welding: a numerical and experimental study. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 105, 5203-5215	3.2	4
105	Fabrication of HDPE composites via a novel friction stir processing technology. <i>Journal of Thermoplastic Composite Materials</i> , 2019 , 32, 1305-1318	1.9	
104	Microstructures and oxidation behavior of Al-CrMnFeCoMoW composite coatings on Ti-6Al-4V alloy substrate via high-energy mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2019 , 779, 456-465	5.7	24
103	Effect of Cr content on microstructure and properties of Ni-Ti-xCr coatings by laser cladding. <i>Optik</i> , 2019 , 179, 1042-1048	2.5	8
102	Producing of Al ₄ WC surface composite by additive friction stir processing. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 147-158	4.1	19
101	Friction plug welding acrylonitrile butadiene styrene sheets: the investigation of welding process, joint morphology and mechanical property. <i>International Journal of Material Forming</i> , 2019 , 12, 845-855	2	3
100	Development of surface composite based on Al-Cu system by friction stir processing: Evaluation of microstructure, formation mechanism and wear behavior. <i>Surface and Coatings Technology</i> , 2018 , 344, 30-42	4.4	39
99	Friction stir spot welding ABS using triflute-pin tool: Effect of process parameters on joint morphology, dimension and mechanical property. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 269-279	5	16
98	Fabrication of Al ₃ Si coating on Ti ₆ Al ₄ V substrate by mechanical alloying. <i>Materials and Manufacturing Processes</i> , 2018 , 33, 186-195	4.1	4

97	Microstructure characterization and mechanical behavior of dissimilar friction stir welded Al/Cu couple with different joint configurations. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 1021-1030	3.2	13
96	Fabrication of ultra-thin copper foil pressure welding using FSW equipment. <i>Journal of Materials Processing Technology</i> , 2018 , 251, 343-349	5.3	7
95	Microstructure, mechanical properties and strengthening mechanism of titanium particle reinforced aluminum matrix composites produced by submerged friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 353-363	5.3	39
94	A strategy for improving the mechanical properties of FSWed joints of non-heat-treatable Al alloys through a combination of water cooling and particle addition. <i>Journal of Manufacturing Processes</i> , 2018 , 34, 667-677	5	6
93	Thermal shock resistance and thermal conductivity of diamond-Cu composite coatings on Cu substrate via mechanical milling method. <i>Surface and Coatings Technology</i> , 2018 , 352, 529-540	4.4	10
92	Microstructures and mechanical properties of thin 304 stainless steel sheets by friction stir welding. <i>Journal of Adhesion Science and Technology</i> , 2018 , 32, 1313-1323	2	14
91	Structural and Magnetic Properties of the Series of Double-Perovskite $\text{Sr}_{2-x}\text{Bi}_x\text{MnMoO}_6$. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 865-871	1.5	1
90	The Microstructure and Deformation Behavior of Al-Fe-Mn Alloys with Different Fe Contents during Cold Rolling. <i>Metals</i> , 2018 , 8, 753	2.3	5
89	Numerical simulation of friction stir butt-welding of 6061 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 1216-1225	3.3	4
88	Dissimilar friction stir welding of aluminum alloys adopting a novel dual-pin tool: Microstructure evolution and mechanical properties. <i>Journal of Manufacturing Processes</i> , 2018 , 36, 613-620	5	16
87	Effect of groove depth and plunge depth on microstructure and mechanical properties of friction stir butt welded AA6061-T6. <i>Journal of Adhesion Science and Technology</i> , 2018 , 32, 2709-2726	2	16
86	Friction stir spot welding thin acrylonitrile butadiene styrene sheets using pinless tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 2749-2755	3.2	16
85	Fabrication of high-density polyethylene/multiwalled carbon nanotube composites via submerged friction stir processing: Evaluation of morphological, mechanical, and thermal behavior. <i>Journal of Thermoplastic Composite Materials</i> , 2017 , 30, 241-254	1.9	21
84	Oxidation behavior of a high Si content Al ₃ Si composite coating fabricated on Ti ₆ Al ₄ V substrate by mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 27-36	5.7	30
83	Microstructures and properties of Cu ₆₀ Cr ₄₀ composite coatings fabricated by surface mechanical alloying technique. <i>Rare Metals</i> , 2017 , 1	5.5	
82	Application and exploration of friction stir welding/processing in plastics industry. <i>Materials Science and Technology</i> , 2017 , 33, 1145-1158	1.5	15
81	Effects of annealing on Al ₃ Si coating synthesised by mechanical alloying. <i>Surface Engineering</i> , 2017 , 33, 548-558	2.6	11
80	Dissimilar friction stir welding of 6061 Al to T2 pure Cu adopting tooth-shaped joint configuration: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 690, 355-364	5.3	34

79	Synthesis of AlB ₄ C composite coating on TiBAl _{0.5} V alloy substrate by mechanical alloying method. <i>Surface and Coatings Technology</i> , 2017 , 321, 8-18	4.4	14
78	Effects of friction stir spot welding parameters on morphology and mechanical property of modified cast nylon 6 joints produced by double-pin tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 2511-2523	3.2	18
77	Influences of friction stir welding parameters on morphology and tensile strength of high density polyethylene lap joints produced by double-pin tool. <i>Journal of Manufacturing Processes</i> , 2017 , 28, 33-40 ⁵		10
76	A comparative investigation on bi-layer AlCr/AlSi coating and mono-layer AlCrSi coating synthesized on TiBAl _{0.5} V alloy substrate by mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 639-651	5.7	9
75	The effects of processing environments on the microstructure and mechanical properties of the Ti/5083Al composites produced by friction stir processing. <i>Journal of Manufacturing Processes</i> , 2017 , 30, 361-373	5	37
74	Effects of preheating treatment on temperature distribution and material flow of aluminum alloy and steel friction stir welds. <i>Journal of Manufacturing Processes</i> , 2017 , 29, 29-40	5	27
73	Effect of plunge depth on microstructure and mechanical properties of FSW lap joint between aluminum alloy and nickel-base alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 952-961	5.7	29
72	Microstructures and oxidation behavior of NiCrAlCoY-Al composite coatings on Ti-6Al-4V alloy substrate via high-energy mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 697, 268-281	5.7	22
71	Formation mechanism and mechanical properties of surface nanocrystallized TiBAl _{0.5} V alloy processed by surface mechanical attrition treatment. <i>Rare Metals</i> , 2017 , 1	5.5	3
70	Effects of annealing treatment and pre-refinement of raw material on microstructures and properties of mechanically alloyed CrAl composite coatings on TiBAl _{0.5} V alloy. <i>Materials Characterization</i> , 2016 , 120, 97-108	3.9	12
69	Microstructures and properties of CrCu/WCu bi-layer composite coatings prepared by mechanical alloying. <i>International Journal of Materials Research</i> , 2016 , 107, 544-552	0.5	2
68	Dissimilar friction stir welding of 6061 Al to 316 stainless steel using Zn as a filler metal. <i>Journal of Alloys and Compounds</i> , 2016 , 686, 693-701	5.7	70
67	Numerical simulation and experimental investigation of friction stir lap welding between aluminum alloys AA2024 and AA7075. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 493-500	5.7	41
66	Effects of processing variables and heat treatments on Al/Ti-6Al-4V interface microstructure of bimetal clad-plate fabricated via a novel route employing friction stir lap welding. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 904-913	5.7	37
65	Preparation of Al ₂ O ₃ /TiO ₂ particle-reinforced copper through plasma spraying and friction stir processing. <i>Materials and Design</i> , 2016 , 90, 922-930	8.1	21
64	Friction stir brazing of 6061 aluminum alloy and H62 brass: Evaluation of microstructure, mechanical and fracture behavior. <i>Materials and Design</i> , 2016 , 99, 403-411	8.1	29
63	Nitriding of Fe ₁₈ Cr ₈ Mn stainless steel powders by mechanical alloying method with dual nitrogen source. <i>Powder Technology</i> , 2016 , 294, 330-337	5.2	13
62	Investigation of CrAl composite coatings fabricated on pure Ti substrate via mechanical alloying method: Effects of CrAl ratio and milling time on coating, and oxidation behavior of coating. <i>Journal of Alloys and Compounds</i> , 2016 , 660, 208-219	5.7	29

61	Microstructure and tensile properties of dissimilar submerged friction stir welds between HDPE and ABS sheets. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 919-927	3.2	23
60	Fabrication of tungsten particles reinforced aluminum matrix composites using multi-pass friction stir processing: Evaluation of microstructural, mechanical and electrical behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 504-513	5.3	48
59	Improvements of mechanical properties in dissimilar joints of HDPE and ABS via carbon nanotubes during friction stir welding process. <i>Materials and Design</i> , 2015 , 86, 289-296	8.1	75
58	Microstructures and properties of W/Cu functionally graded composite coatings on copper substrate via high-energy mechanical alloying method. <i>Advanced Powder Technology</i> , 2015 , 26, 392-400	4.6	27
57	Effects of Cu content on the microstructures and properties of Cr/Cu composite coatings fabricated via mechanical alloying method. <i>Powder Technology</i> , 2015 , 277, 36-46	5.2	13
56	A novel method designed for electrodeposition of nanocrystalline Ni coating and its corrosion behaviors in Hank's solution. <i>Applied Surface Science</i> , 2015 , 324, 677-690	6.7	19
55	Microstructure feature of friction stir processed ductile cast iron. <i>Materials & Design</i> , 2015 , 65, 847-854		5
54	Aluminum-based nanocomposites with hybrid reinforcements prepared by mechanical alloying and selective laser melting consolidation. <i>Journal of Materials Research</i> , 2015 , 30, 2816-2828	2.5	13
53	The dissimilar friction stir lap welding of 1A99 Al to pure Cu using Zn as filler metal with pinless tool configuration. <i>Materials & Design</i> , 2015 , 68, 54-62		59
52	Surface modification of Ti6Al4V alloy via friction-stir processing: Microstructure evolution and dry sliding wear performance. <i>Surface and Coatings Technology</i> , 2014 , 239, 160-170	4.4	44
51	A comparative study of pure nickel and the NiTeO ₂ nanocrystalline coatings: microstructural evolution, oxidation behavior, and thermodynamic stability. <i>Journal of Materials Science</i> , 2014 , 49, 3755-3774	4.7	14
50	Numerical simulation and experimental investigation on friction stir welding of 6061-T6 aluminum alloy. <i>Materials & Design</i> , 2014 , 60, 94-101		47
49	Friction-stir welding of titanium/aluminum dissimilar alloys: Joint configuration design, as-welded interface characteristics and tensile properties. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014 , 228, 1469-1480	2.4	13
48	Tungsten/steel diffusion bonding using Cu/W/Ni/Ni multi-interlayer. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2554-2558	3.3	12
47	Investigation on dissimilar underwater friction stir lap welding of 6061-T6 aluminum alloy to pure copper. <i>Materials & Design</i> , 2014 , 64, 74-80		88
46	Mechanism of Reaction Between Nd and Ga in Sn-Zn-0.5Ga-xNd Solder. <i>Journal of Electronic Materials</i> , 2014 , 43, 3404-3410	1.9	9
45	Inhibiting the growth of Sn whisker in Sn-9Zn lead-free solder by Nd and Ga. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 2671-2675	2.1	13
44	Wettability and interfacial whiskers of Sn9Zn0.5Ga0.08Nd solder with Sn, SnBi and Au/Ni coatings. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3520-3525	2.1	9

43	Effects of Cu content and mechanical alloying parameters on the preparation of W/Cu composite coatings on copper substrate. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 368-375	5.7	35
42	Fabrication and Evaluation of Ti ₃ Al _p /Ti ₆ Al ₄ V Surface Layer via Additive Friction-Stir Processing. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 412-417	4.1	20
41	Microstructure evolution of Cr coatings on Cu substrates prepared by mechanical alloying method. <i>Powder Technology</i> , 2014 , 268, 165-172	5.2	17
40	Submerged friction stir weld of polyethylene sheets. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	n/a	15
39	Investigation on the intermetallic compound layer growth of SnZnGa/SnZnGaNd solder joints. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 4219-4224	2.1	3
38	Friction-Stir Nitriding of Titanium Alloy Surface Layer. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 493-497	4.1	13
37	Surface morphologies, tribological properties, and formation mechanism of the Ni/CeO ₂ nanocrystalline coatings on the modified surface of TA2 substrate. <i>Surface and Coatings Technology</i> , 2014 , 249, 6-18	4.4	15
36	Dissimilar friction stir welding of Ti ₆ Al ₄ V alloy and aluminum alloy employing a modified butt joint configuration: Influences of process variables on the weld interfaces and tensile properties. <i>Materials & Design</i> , 2014 , 53, 838-848		84
35	Microstructures and formation mechanism of W/Cu composite coatings on copper substrate prepared by mechanical alloying method. <i>Applied Surface Science</i> , 2013 , 282, 757-764	6.7	38
34	Fabrication of Ti ₆ Al ₄ V coatings with amorphous microstructure on Ti ₆ Al ₄ V alloy substrate via high-energy mechanical alloying method. <i>Surface and Coatings Technology</i> , 2013 , 236, 485-499	4.4	13
33	Beneficial effects of CeO ₂ addition on microstructure and corrosion behavior of electrodeposited Ni nanocrystalline coatings. <i>Surface and Coatings Technology</i> , 2013 , 235, 433-446	4.4	41
32	Surface aluminizing on Ti ₆ Al ₄ V alloy via a novel multi-pass friction-stir lap welding method: Preparation process, oxidation behavior and interlayer evolution. <i>Materials & Design</i> , 2013 , 49, 647-656		25
31	Surface nitriding on Ti ₆ Al ₄ V alloy via friction stir processing method under nitrogen atmosphere. <i>Applied Surface Science</i> , 2013 , 274, 356-364	6.7	26
30	Fabrication of TiCp/Ti ₆ Al ₄ V surface composite via friction stir processing (FSP): Process optimization, particle dispersion-refinement behavior and hardening mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 574, 75-85	5.3	49
29	A feasibility research on friction stir welding of a new-typed lap/butt joint of dissimilar Al alloys. <i>Materials & Design</i> , 2012 , 34, 725-731		19
28	Preparation of TiCr and TiCu flame-retardant coatings on Ti ₆ Al ₄ V using a high-energy mechanical alloying method: A preliminary research. <i>Materials & Design</i> , 2012 , 35, 25-36		41
27	Microstructure and depositional mechanism of NiB coatings with nano-ceria particles by pulse electrodeposition. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1981-1988	3.3	20
26	Study on properties of Sn ₉ Zn ₁ solder bearing Nd. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1272-1278	2.1	12

25	Mechanism and microstructure of nickel-ceria composite coatings prepared by pulse current deposition under the ultrasonic field. <i>Journal of Rare Earths</i> , 2011 , 29, 883-887	3.7	11
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21	The investigation of abnormal particle-coarsening phenomena in friction stir repair weld of 2219-T6 aluminum alloy. <i>Materials & Design</i> , 2011 , 32, 3796-3802		30
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19	Microstructures and properties of direct laser sintered tungsten carbide (WC) particle reinforced Cu matrix composites with RE ₂ Si ₂ Be addition: A comparative study. <i>Journal of Materials Research</i> , 2009 , 24, 3397-3406	2.5	14
18	Microstructural characteristics and formation mechanism of direct laser-sintered Cu-based alloys reinforced with Ni particles. <i>Materials & Design</i> , 2009 , 30, 2099-2107		30
17	Microstructures and properties of high Cr content coatings on inner surfaces of carbon steel tubular components prepared by a novel mechanical alloying method. <i>Applied Surface Science</i> , 2009 , 256, 223-230	6.7	19
16	Effects of processing parameters on consolidation and microstructure of WC ₁₀ /Cu components by DMLS. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 107-115	5.7	119
15	Influence of processing parameters on particulate dispersion in direct laser sintered WC ₁₀ /Cu MMCs. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 411-422	4.1	16
14	Processing conditions and microstructural features of porous 316L stainless steel components by DMLS. <i>Applied Surface Science</i> , 2008 , 255, 1880-1887	6.7	86
13	Effect of rare earth oxide addition on microstructures of ultra-fine WC ₁₀ particulate reinforced Cu matrix composites prepared by direct laser sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 445-446, 316-322	5.3	28
12	Influence of reinforcement weight fraction on microstructure and properties of submicron WC ₁₀ /Cu bulk MMCs prepared by direct laser sintering. <i>Journal of Alloys and Compounds</i> , 2007 , 431, 112-120	5.7	39
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10	Metallurgical mechanisms in direct laser sintering of Cu ₃ Sn ₂ P mixed powder. <i>Journal of Alloys and Compounds</i> , 2007 , 438, 184-189	5.7	30
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8	Microstructure and property of sub-micro WC-10 %Co particulate reinforced Cu matrix composites prepared by selective laser sintering. <i>Transactions of Nonferrous Metals Society of China</i> , 2006 , 16, 357-362	3.3	37

7	Processing and microstructure of submicron WC ₁₀ particulate reinforced Cu matrix composites prepared by direct laser sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 435-436, 54-61	5.3	29
6	Influences of Process Parameters on Morphology and Mechanical Properties of FSW-T-Joint of 2024/5083 Al Alloy Sheets. <i>Arabian Journal for Science and Engineering</i> ,1	2.5	
5	Microstructural Transformation and Tribological Properties of Laser-Cladded FeNiCoCrTi _{0.5} -xNbC High-Entropy Alloy-Based Composite Coatings. <i>Journal of Thermal Spray Technology</i> ,1	2.5	0
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3	Thermal stability of eutectic FeNiCoCrTi _{0.6} Nb _{0.4} high-entropy alloy coating. <i>Powder Metallurgy</i> ,1-9	1.9	1
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1	Investigation on Friction Stir Welding of Mg/Al T-Joints. <i>Transactions of the Indian Institute of Metals</i> ,1	1.2	0