

Yi-Fu Shen

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5823320/yi-fu-shen-publications-by-citations.pdf>

Version: 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Effects of processing parameters on consolidation and microstructure of WCu components by DMLS. <i>Journal of Alloys and Compounds</i> , 2009 , 473, 107-115	5.7	119
167	Balling phenomena during direct laser sintering of multi-component Cu-based metal powder. <i>Journal of Alloys and Compounds</i> , 2007 , 432, 163-166	5.7	108
166	The study on defects in aluminum 2219-T6 thick butt friction stir welds with the application of multiple non-destructive testing methods. <i>Materials & Design</i> , 2011 , 32, 2073-2084		97
165	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
164	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
163	Dissimilar friction stir welding of Ti6Al4V 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
162	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
161	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
160	Development of highly porous titanium scaffolds by selective laser melting. <i>Materials Letters</i> , 2010 , 64, 674-676	3.3	62
159	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
158	Fabrication of TiCp/Ti6Al4V 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
157	WCu particulate reinforcing Cu matrix composites produced by direct laser sintering. <i>Materials Letters</i> , 2006 , 60, 3664-3668	3.3	48
156	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
155	Numerical simulation and experimental investigation on friction stir welding of 6061-T6 aluminum alloy. <i>Materials & Design</i> , 2014 , 60, 94-101		47
154	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
153	Casting defects induced fatigue damage in aircraft frames of ZL205A aluminum alloy: A failure analysis. <i>Materials & Design</i> , 2011 , 32, 2570-2582		43
152	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

151	Preparation of TiCr and TiCu flame-retardant coatings on Ti6Al4V using a high-energy mechanical alloying method: A preliminary research. <i>Materials & Design</i> , 2012 , 35, 25-36		41
150	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
149	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
148	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 , 701, 353-366	5-3	39
147	Influence of reinforcement weight fraction on microstructure and properties of submicron WC ₆₀ /Cu bulk MMCs prepared by direct laser sintering. <i>Journal of Alloys and Compounds</i> , 2007 , 431, 112-120	5-7	39
146	Microstructures and formation mechanism of WCu composite coatings on copper substrate prepared by mechanical alloying method. <i>Applied Surface Science</i> , 2013 , 282, 757-764	6-7	38
145	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
144	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
143	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
142	Effects of Cu content and mechanical alloying parameters on the preparation of WCu composite coatings on copper substrate. <i>Journal of Alloys and Compounds</i> , 2014 , 585, 368-375	5-7	35
141	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
140	Oxidation behavior of a high Si content AlSi composite coating fabricated on Ti6Al4V substrate by mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 27-36	5-7	30
139	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
138	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
137	Metallurgical mechanisms in direct laser sintering of Cu ₆₀ Sn ₂₀ P mixed powder. <i>Journal of Alloys and Compounds</i> , 2007 , 438, 184-189	5-7	30
136	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
135	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
134	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

133	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
132	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
131	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
130	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
129	Microstructures and properties of WCu 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
128	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
127	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
126	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
125	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
124	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
123	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
122	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
121	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
120	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
119	Fabrication and Evaluation of Ti ₃ Alp/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
118	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
117	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
116	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

115	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
114	Producing of Al ₂ WC surface composite by additive friction stir processing. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 147-158	4.1	19
113	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
112	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
111	Microstructure evolution of Cr coatings on Cu substrates prepared by mechanical alloying method. <i>Powder Technology</i> , 2014 , 268, 165-172	5.2	17
110	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
109	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
108	Influence of processing parameters on particulate dispersion in direct laser sintered WC ₁₀ Co/Cu MMCs. <i>International Journal of Refractory Metals and Hard Materials</i> , 2008 , 26, 411-422	4.1	16
107	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
106	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
105	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
104	Application and exploration of friction stir welding/processing in plastics industry. <i>Materials Science and Technology</i> , 2017 , 33, 1145-1158	1.5	15
103	Submerged friction stir weld of polyethylene sheets. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a		15
102	Surface morphologies, tribological properties, and formation mechanism of the Ni ₃ TeO ₂ nanocrystalline coatings on the modified surface of TA2 substrate. <i>Surface and Coatings Technology</i> , 2014 , 249, 6-18	4.4	15
101	Synthesis of AlB ₄ C composite coating on TiB ₂ Al ₂ V alloy substrate by mechanical alloying method. <i>Surface and Coatings Technology</i> , 2017 , 321, 8-18	4.4	14
100	A comparative study of pure nickel and the Ni ₃ TeO ₂ nanocrystalline coatings: microstructural evolution, oxidation behavior, and thermodynamic stability. <i>Journal of Materials Science</i> , 2014 , 49, 3755-3774	4.3	14
99	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
98	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

97	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
96	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
95	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
94	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
93	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
92	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
91	Fabrication of Ti/Cu/Al 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
90	Friction-Stir Nitriding of Titanium Alloy Surface Layer. <i>Materials and Manufacturing Processes</i> , 2014 , 29, 493-497	4.1	13
89	Effects of annealing treatment and pre-refinement of raw material on microstructures and properties of mechanically alloyed Cr/Al composite coatings on Ti ₆ Al ₄ V alloy. <i>Materials Characterization</i> , 2016 , 120, 97-108	3.9	12
88	Tungsten/steel diffusion bonding using Cu/W ₅ Ni/Ni multi-interlayer. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2554-2558	3.3	12
87	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
86	Tribological behavior of diamond reinforced FeNiCoCrTi _{0.5} carbonized high-entropy alloy coating. <i>Surface and Coatings Technology</i> , 2020 , 401, 126233	4.4	12
85	Enhancing metallurgical and mechanical properties of friction stir butt welded joints of Al/Cu via cold sprayed Ni interlayer. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 809, 140992	5.3	12
84	Effects of annealing on Al ₂ Si coating synthesised by mechanical alloying. <i>Surface Engineering</i> , 2017 , 33, 548-558	2.6	11
83	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
82	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
81	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
80	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

79	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
78	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
77	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}		10
76	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
75	A comparative investigation on bi-layer AlCr/AlBi coating and mono-layer AlCrBi coating synthesized on Ti6Al4V alloy substrate by mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 639-651	5.7	9
74	Laser cladding composite coatings by NiCrTiB4C with different process parameters. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 898-906	4.1	9
73	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
72	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
71	Microstructures and properties of TiCr/Al coating synthesized on Ti6Al4V alloy substrate using mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2020 , 813, 152223	5.7	9
70	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
69	Laser cladding composite coating on mild steel using NiCrTiB4C powder. <i>Surface Engineering</i> , 2020 , 36, 1278-1284	2.6	8
68	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
67	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
66	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
65	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
64	Laser cladding Ni-Ti-Cr alloy coatings with different process parameters. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 1710-1718	4.1	7
63	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
62	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

61	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
60	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
59	Microstructure feature of friction stir processed ductile cast iron. <i>Materials & Design</i> , 2015 , 65, 847-854		5
58	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
57	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
56	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
55	Interfacial properties of friction stir lap welded 430/304 stainless steels using Cu interlayer. <i>Materials Letters</i> , 2021 , 284, 129027	3.3	5
54	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
53	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
52	Fabrication of AlSi coating on TiBAlV substrate by mechanical alloying. <i>Materials and Manufacturing Processes</i> , 2018 , 33, 186-195	4.1	4
51	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
50	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
49	In Situ Synthesis of Ti ₅ Si ₃ Matrix Nanocomposites Reinforced with Nanoparticles by High-Energy Mechanical Alloying. <i>Advanced Engineering Materials</i> , 2011 , 13, 418-425	3.5	4
48	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
47	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
46	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
45	Forming mechanisms and mechanical property of AZ31B/2024-T4 friction stir welded T-joints. <i>Journal of Adhesion Science and Technology</i> , 1-16	2	4
44	Microstructure and mechanical performance of ODS superalloys manufactured by selective laser melting. <i>Optics and Laser Technology</i> , 2021 , 144, 107423	4.2	4

43	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
42	Fabrication of Al7075/PI composites base on FSW technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 4377-4386	3.2	3
41	Formation mechanism and mechanical properties of surface nanocrystallized Ti6Al4V alloy processed by surface mechanical attrition treatment. <i>Rare Metals</i> , 2017 , 1	5.5	3
40	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
39	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
38	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
37	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
36	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
35	Microstructures and mechanical properties of submerged friction stir welding of ME20M Magnesium alloy 2019 ,		2
34	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	2.0	2
33	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
32	Microstructures and properties of CrTi/WTi bi-layer composite coatings prepared by mechanical alloying. <i>International Journal of Materials Research</i> , 2016 , 107, 544-552	0.5	2
31	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
30	Self-consumption friction plug spot welding of Ti6Al4V plates. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14283-14293	5.5	2
29	Effect of Welding Parameters on Friction Stir Welded Ti6Al4V Joints: Temperature, Microstructure and Mechanical Properties. <i>Metals</i> , 2020 , 10, 940	2.3	2
28	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
27	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
26	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

25	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
24	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
23	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
22	Consumable friction plug welding of TC4 plate: parameters, microstructures, and mechanical properties. <i>Materials Research Express</i> , 2019 , 6, 116520	1.7	1
21	Microstructure and thermal conductivity of Cu-Cu ₂ AlNiZnAg/diamond coatings on pure copper substrate via high-energy mechanical alloying method. <i>Surfaces and Interfaces</i> , 2020 , 21, 100742	4.1	1
20	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
19	Thermal stability of eutectic FeNiCoCrTi _{0.6} Nb _{0.4} high-entropy alloy coating. <i>Powder Metallurgy</i> , 1-9	1.9	1
18	High temperature oxidation behaviour of mono-layer and bi-layer coatings. <i>Surface Engineering</i> , 2021 , 37, 120-128	2.6	1
17	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
16	Structural and Magnetic Properties of the Series of Double-Perovskite Sr _{2-x} Bi _x MnMoO ₆ . <i>Journal of Superconductivity and Novel Magnetism</i> , 2018 , 31, 865-871	1.5	1
15	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
14	Microstructural Transformation and Tribological Properties of Laser-Cladded FeNiCoCrTi _{0.5-x} NbC High-Entropy Alloy-Based Composite Coatings. <i>Journal of Thermal Spray Technology</i> , 1	2.5	0
13	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
12	Numerical simulation and experimental investigation of subzero liquid SFSW of ME20M magnesium alloy. <i>Journal of Adhesion Science and Technology</i> , 1-16	2	0
11	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
10	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
9	Investigation on Friction Stir Welding of Mg/Al T-Joints. <i>Transactions of the Indian Institute of Metals</i> , 1	1.2	0
8	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

7	Microstructures and properties of CuCrW composite coatings fabricated by surface mechanical alloying technique. <i>Rare Metals</i> , 2017 , 1	5.5
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	Research on hot cracks and microstructure of Inconel 100 by laser micromelting repairing. <i>Journal of Laser Applications</i> , 2021 , 33, 042057	2.1
4	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
3	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
2	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
1	Fabrication of HDPE composites via a novel friction stir processing technology. <i>Journal of Thermoplastic Composite Materials</i> , 2019 , 32, 1305-1318	1.9