

ChuanSong Wu

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.

269
papers

5,311
citations

37
h-index

56
g-index

285
ext. papers

6,486
ext. citations

3.7
avg, IF

6.78
L-index

#	Paper	IF	Citations
269	Effect of pulsed power ultrasonic vibration on keyholing/penetrating capability in waveform-controlled plasma arc welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022 , 66, 529	1.9	1
268	Effects of tool pin thread on temperature field and material mixing in friction stir welding of dissimilar Al/Mg alloys. <i>Journal of Manufacturing Processes</i> , 2022 , 74, 112-122	5	2
267	Improving the microstructures and mechanical properties with nano-Al ₂ O ₃ treated wire in underwater submerged arc welding. <i>Journal of Manufacturing Processes</i> , 2022 , 74, 40-51	5	0
266	Effect of ultrasonic field on microstructure evolution in friction stir welding of dissimilar Al/Mg alloys. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 1-21	5.5	2
265	Material flow velocity, strain and strain rate in ultrasonic vibration enhanced friction stir welding of dissimilar Al/Mg alloys. <i>Journal of Manufacturing Processes</i> , 2022 , 75, 13-22	5	4
264	The influence of acoustic antifriction on heat generation and material flow in ultrasonic-assisted friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 120, 2633	3.2	0
263	Effects of Ultrasonic Vibration on Material Flow and Thermal Cycles in Friction Stir Welding of Dissimilar Al/Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2022 , 53, 1572-1584	2.3	1
262	Effect of tool eccentricity on the periodic material flow in friction stir welding process. <i>International Journal of Mechanical Sciences</i> , 2022 , 220, 107164	5.5	1
261	The mechanisms of underwater wet flux-cored arc welding assisted by ultrasonic frequency pulse high-current. <i>Journal of Materials Processing Technology</i> , 2022 , 304, 117567	5.3	0
260	Tool tilt angle induced variation of shoulder-workpiece contact condition in friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2022 , 27, 68-76	3.7	1
259	An easy-to-use multi-physical model to predict weld pool geometry in keyhole plasma arc welding. <i>Results in Engineering</i> , 2022 , 14, 100429	3.3	1
258	Homogenizing the intermetallic compounds distribution in Al/Cu dissimilar friction stir welding joint with the assistance of ultrasonic vibration. <i>Materials Today Communications</i> , 2022 , 31, 103643	2.5	0
257	Simulation of the influence of welding parameters on weld pool behavior during a TIG-MIG hybrid welding process. <i>Journal of Manufacturing Processes</i> , 2022 , 79, 460-475	5	0
256	Eliminating intermetallic compounds via Ni interlayer during friction stir welding of dissimilar Mg/Al alloys. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 4353-4369	5.5	3
255	Formation of the periodic material flow behaviour in friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 286-293	3.7	7
254	Numerical Prediction of Intermetallic Compounds Thickness in Friction Stir Welding of Dissimilar Aluminum/Magnesium Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 1375-1385	2.5	1
253	Analysis and characterization of dynamic recrystallization and grain structure evolution in friction stir welding of aluminum plates. <i>Acta Materialia</i> , 2021 , 207, 116692	8.4	26

252	Analysis of heat and mass transfer in ultrasonic vibration-enhanced friction stir welding of 2195 AlCu alloy. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 363-370	3.7	2
251	Influence of ultrasonic vibration on keyholing/penetrating capability in plasma arc welding with controlled pulse waveform. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021 , 65, 1107-1117	1.9	3
250	Experimental sensing of molten flow velocity, weld pool and keyhole geometries in ultrasonic-assisted plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2021 , 64, 1412-1419	5	6
249	Strengthening Effects of Tool-Mounted Ultrasonic Vibrations during Friction Stir Lap Welding of Al and Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 2909	2.3	7
248	Modified constitutive equation by using phase field simulation of dynamic recrystallization in friction stir welding. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 916-929	5.5	4
247	Auxiliary energy-assisted arc welding processes and their modelling, sensing and control. <i>Science and Technology of Welding and Joining</i> , 2021 , 26, 389-411	3.7	4
246	Acoustic effect on the tensile properties and metallurgical structures of dissimilar friction stir welding joints of Al/Mg alloys. <i>Journal of Manufacturing Processes</i> , 2021 , 65, 328-341	5	8
245	Numerical simulation of coupled arc-droplet-weld pool behaviors during compound magnetic field assisted gas metal arc welding. <i>AIP Advances</i> , 2021 , 11, 065221	1.5	2
244	The effect of tool pin size and taper angle on the thermal process and plastic material flow in friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 116, 2847-2860	3.2	3
243	Enhancement of the Al/Mg Dissimilar Friction Stir Welding Joint Strength with the Assistance of Ultrasonic Vibration. <i>Metals</i> , 2021 , 11, 1113	2.3	2
242	Investigation of the WAAM processes features based on an indirect arc between two non-consumable electrodes. <i>Vacuum</i> , 2021 , 183, 109851	3.7	2
241	Acoustic induced antifriction and its effect on thermo-mechanical behavior in ultrasonic assisted friction stir welding. <i>International Journal of Mechanical Sciences</i> , 2021 , 190, 106039	5.5	12
240	Numerical Simulation for the Optimization of Polygonal Pin Profiles in Friction Stir Welding of Aluminum. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 1065-1078	2.5	10
239	Numerical Analysis of Keyhole and Weld Pool Behaviors in Ultrasonic-Assisted Plasma Arc Welding Process. <i>Materials</i> , 2021 , 14,	3.5	2
238	Process Stability, Microstructure and Mechanical Properties of Underwater Submerged-Arc Welded Steel. <i>Metals</i> , 2021 , 11, 1249	2.3	1
237	Concurrent influences of tool offset and ultrasonic vibration on the joint quality and performance of dissimilar Al/Cu friction stir welds. <i>Journal of Materials Research and Technology</i> , 2021 , 14, 1035-1051	5.5	5
236	Numerical analysis of molten metal behavior and undercut formation in high-speed GMAW. <i>Journal of Materials Processing Technology</i> , 2021 , 297, 117266	5.3	1
235	A Review on Friction Stir Welding of Steels. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021 , 34,	2.5	8

234	The effect of ultrasonic vibration on stress-strain relations during compression tests of aluminum alloys. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 14895-14906	5.5	7
233	Numerical Simulation of Arc and Droplet Behaviors in TIG-MIG Hybrid Welding. <i>Materials</i> , 2020 , 13,	3.5	2
232	Progress in Thermomechanical Analysis of Friction Stir Welding. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2020 , 33,	2.5	16
231	Stirring effect of the rotating arc on the molten pool during non-axisymmetric tungsten NG-GTAW. <i>Journal of Materials Processing Technology</i> , 2020 , 285, 116769	5.3	6
230	Thermal analysis of friction stir processing (FSP) using arbitrary Lagrangian-Eulerian (ALE) and smoothed particle hydrodynamics (SPH) meshing techniques. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020 , 51, 550-557	0.9	9
229	Effect of ultrasonic vibration on dynamic recrystallization in friction stir welding. <i>Journal of Manufacturing Processes</i> , 2020 , 56, 87-95	5	8
228	Optimizing the tool pin with three flats in friction stir welding of aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 721-733	3.2	6
227	Evaluation of capabilities of ultrasonic vibration on the surface, electrical and mechanical behaviours of aluminium to copper dissimilar friction stir welds. <i>International Journal of Mechanical Sciences</i> , 2020 , 183, 105784	5.5	24
226	HF pulse effect on microstructure and properties of AC TIG butt-welded joint of 6061Al alloy. <i>Journal of Manufacturing Processes</i> , 2020 , 56, 878-886	5	3
225	Experimental measurement of fluid flow in high-speed GMAW assisted by transverse magnetic field. <i>Journal of Manufacturing Processes</i> , 2020 , 56, 1193-1200	5	5
224	Numerical investigation on the effect of process parameters on arc and metal transfer in magnetically controlled gas metal arc welding. <i>Vacuum</i> , 2020 , 177, 109391	3.7	9
223	A comparison of double shielded GMAW-P with conventional GMAW-P in the arc, droplet and bead formation. <i>Journal of Materials Processing Technology</i> , 2020 , 285, 116781	5.3	5
222	Study of high-speed pulsed gas metal arc welding assisted by external magnetic-field. <i>Science and Technology of Welding and Joining</i> , 2020 , 25, 564-570	3.7	5
221	Modeling the dissimilar material flow and mixing in friction stir welding of aluminum to magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 843, 156021	5.7	10
220	Numerical investigation of heat generation and plastic deformation in ultrasonic assisted friction stir welding. <i>Journal of Manufacturing Processes</i> , 2020 , 56, 967-980	5	10
219	Process Parametric Dependency of Axial Downward Force and Macro- and Microstructural Morphologies in Ultrasonically Assisted Friction Stir Welding of Al/Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 2863-2881	2.3	10
218	Numerical Analysis of the Metal Transfer and Welding Arc Behaviors in Underwater Flux-cored Arc Welding. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 153, 119570	4.9	5
217	Study of high-speed GMAW assisted by compound external magnetic field. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 885-901	1.9	4

216	Effects of Ultrasonic Vibration on the Transport Coefficients in Plasma Arc Welding. <i>Metals</i> , 2020 , 10, 312	2.3	7
215	High-frequency pulse-modulated square wave AC TIG welding of AA6061-T6 aluminum alloy. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020 , 64, 1749-1762	1.9	7
214	Numerical simulations of arc plasma under external magnetic field-assisted gas metal arc welding. <i>AIP Advances</i> , 2020 , 10, 065030	1.5	1
213	Finite element modeling of friction stir welding (FSW) on a complex curved plate. <i>Journal of Advanced Joining Processes</i> , 2020 , 1, 100007	2.1	5
212	Effect of ultrasonic vibration on current density and keyholing capability of plasma arc. <i>Science and Technology of Welding and Joining</i> , 2020 , 25, 422-430	3.7	9
211	Suppression of intermetallic reaction layer by ultrasonic assistance during friction stir welding of Al and Mg based alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154343	5.7	29
210	Numerical analysis of arc and droplet behaviors in gas metal arc welding with external compound magnetic field. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116638	5.3	14
209	Effects of tool shoulder size on the thermal process and material flow behaviors in ultrasonic vibration enhanced friction stir welding. <i>Journal of Manufacturing Processes</i> , 2020 , 53, 69-83	5	13
208	Numerical and experimental investigation of keyholing process in ultrasonic vibration assisted plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2020 , 50, 603-613	5	12
207	Investigation on arc plasma, droplet, and molten pool behaviours in compulsively constricted WAAM. <i>Additive Manufacturing</i> , 2020 , 34, 101235	6.1	3
206	Visual Investigation on the Arc Burning Behaviors and Features in Underwater Wet FCAW. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2020 , 142,	1.5	5
205	Effect of ultrasonic vibration on thermal and material flow behavior, microstructure and mechanical properties of friction stir welded Al/Cu joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 59-71	3.2	13
204	Experimental study on controlled pulse keyholing plasma arc welding assisted by ultrasonic vibration. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4995-5009	3.2	7
203	Organic adhesive assisted underwater submerged-arc welding. <i>Journal of Materials Processing Technology</i> , 2020 , 284, 116739	5.3	6
202	Phase-field modelling of dynamic recrystallization process during friction stir welding of aluminium alloys. <i>Science and Technology of Welding and Joining</i> , 2020 , 25, 345-358	3.7	12
201	Influence of arc interactions on heat and mass transfer during a two-arc hybrid welding. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 148, 119058	4.9	8
200	A novel underwater submerged-arc welding acquires sound quality joints for high strength marine steel. <i>Materials Letters</i> , 2020 , 261, 127075	3.3	4
199	Numerical simulation of bubble and arc dynamics during underwater wet flux-cored arc welding. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 167-185	5	4

198	Influence of tool tilt angle on heat transfer and material flow in friction stir welding. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 98-112	5	28
197	A more precise unified model to describe comprehensive multiphysics and multiphase phenomena in plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2020 , 59, 668-678	5	5
196	A Convenient Unified Model to Display the Mobile Keyhole-Mode Arc Welding Process. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 7955	2.6	
195	Numerical Investigation of Arc-Pool-Metal Vapor Behavior in GTAW with an External Magnetic Field. <i>Metals</i> , 2020 , 10, 1199	2.3	0
194	Numerical analysis of the heat-pressure characteristics in ultrasonic vibration assisted plasma arc. <i>Journal of Applied Physics</i> , 2020 , 128, 114903	2.5	7
193	Intermetallic Diminution During Friction Stir Welding of Dissimilar Al/Mg Alloys in Lap Configuration Via Ultrasonic Assistance. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 5725-5742	2.3	11
192	Influence of tool thread pitch on material flow and thermal process in friction stir welding. <i>Journal of Materials Processing Technology</i> , 2020 , 275, 116281	5.3	25
191	Investigating the generation process of molten droplets and arc plasma in the confined space during compulsively constricted WAAM. <i>Journal of Materials Processing Technology</i> , 2020 , 275, 116355	5.3	10
190	A novel unified model of keyhole plasma arc welding. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 133, 885-894	4.9	18
189	Impeding effect of bubbles on metal transfer in underwater wet FCAW. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 682-689	5	12
188	Correlation between fusion hole morphology and weld penetration in TIG welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 2991-3000	3.2	5
187	Effect of ultrasonic vibration on the intermetallic compound layer formation in Al/Cu friction stir weld joints. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 512-522	5.7	34
186	Effect of ultrasonic vibration exerted at the tool on friction stir welding process and joint quality. <i>Journal of Manufacturing Processes</i> , 2019 , 42, 192-201	5	10
185	A comparison of TIG-MIG hybrid welding with conventional MIG welding in the behaviors of arc, droplet and weld pool. <i>Journal of Materials Processing Technology</i> , 2019 , 270, 345-355	5.3	22
184	Compulsively constricted WAAM with arc plasma and droplets ejected from a narrow space. <i>Additive Manufacturing</i> , 2019 , 27, 109-117	6.1	14
183	Ultrasonic vibration assisted friction stir welding of aluminium alloy and pure copper. <i>Journal of Manufacturing Processes</i> , 2019 , 39, 114-127	5	20
182	Comprehensive analysis of spatter loss in wet FCAW considering interactions of bubbles, droplets and arc [Part 1: Measurement and improvement. <i>Journal of Manufacturing Processes</i> , 2019 , 40, 122-127	5	4
181	Comprehensive analysis of spatter loss in wet FCAW considering interactions of bubbles, droplets and arc [Part 2: Visualization & mechanisms. <i>Journal of Manufacturing Processes</i> , 2019 , 40, 105-112	5	8

180	Investigation on the bubble dynamic behaviors and corresponding regulation method in underwater flux-cored arc welding. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1808-1817	2.4	3
179	Determination of the traverse force in friction stir welding with different tool pin profiles. <i>Science and Technology of Welding and Joining</i> , 2019 , 24, 209-217	3.7	11
178	Suppression of undercut defects in high-speed GMAW through a compound magnetic field. <i>Journal of Materials Processing Technology</i> , 2019 , 274, 116288	5.3	12
177	Constitutive equation including acoustic stress work and plastic strain for modeling ultrasonic vibration assisted friction stir welding process. <i>International Journal of Machine Tools and Manufacture</i> , 2019 , 145, 103434	9.4	28
176	Pulsed TIG Welding Brazing of Aluminum Stainless Steel with an Al-Cu Twin Hot Wire. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 1180-1189	1.6	11
175	Numerical analysis of the ultrasound induced arc pressure increment in plasma arc welding. <i>Journal Physics D: Applied Physics</i> , 2019 , 52, 035201	3	11
174	Simulation of keyhole plasma arc welding with electro-magneto-thermo-hydrodynamic interactions. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 2497-2507	3.2	2
173	Effect of ultrasonic vibration on welding load, macrostructure, and mechanical properties of Al/Mg alloy joints fabricated by friction stir lap welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 1787-1799	3.2	15
172	Analysis of the dynamic performance of a complex ultrasonic horn for application in friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 1269-1284	3.2	27
171	Stereo analysis on the keyhole and weld pool behaviors in K-PAW with triple CCD cameras. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 754-762	5	6
170	Determination of heat generation by correlating the interfacial friction stress with temperature in friction stir welding. <i>Journal of Manufacturing Processes</i> , 2018 , 31, 801-811	5	34
169	Single CCD-based sensing of both keyhole exit and weld pool in controlled-pulse PAW. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2018 , 62, 377-383	1.9	2
168	Numerical analysis of molten pool behavior during underwater wet FCAW process. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 538-552	5	17
167	Numerical analysis of mass transfer and material mixing in friction stir welding of aluminum/magnesium alloys. <i>Journal of Manufacturing Processes</i> , 2018 , 32, 380-394	5	25
166	Influence of the external magnetic field on fluid flow, temperature profile and humping bead in high speed gas metal arc welding. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 116, 1282-1291	4.9	30
165	Analysis of welding load reduction in ultrasonic vibration-enhanced friction stir welding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 373-385	3.2	7
164	Analysis of friction reduction effect due to ultrasonic vibration exerted in friction stir welding. <i>Journal of Manufacturing Processes</i> , 2018 , 35, 118-126	5	10
163	A 3-D lattice Boltzmann analysis of weld pool dynamic behaviors in plasma arc welding. <i>Applied Thermal Engineering</i> , 2018 , 139, 623-635	5.8	9

162	Numerical analysis of heat transfer and fluid flow characteristics and their influence on bead defects formation in oscillating laser-GMA hybrid welding of lap joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 98, 523-537	3.2	2
161	Progress in Numerical Simulation of Thermal Processes and Weld Pool Behaviors in Fusion Welding. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2018 , 54, 1	1.3	11
160	Weld microstructure and mechanical properties in ultrasonic enhanced friction stir welding of Al alloy to Mg alloy. <i>Journal of Materials Processing Technology</i> , 2018 , 254, 145-157	5.3	59
159	An integrated model for analysing the effects of ultrasonic vibration on tool torque and thermal processes in friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2018 , 23, 365-379	3.7	17
158	An evolutionary keyhole-mode heat transfer model in continuous plasma arc welding. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 1188-1198	4.9	17
157	Numerical analysis of weld pool behaviors in plasma arc welding with the lattice Boltzmann method. <i>International Journal of Thermal Sciences</i> , 2018 , 124, 447-458	4.1	15
156	Friction stir based welding and processing technologies - processes, parameters, microstructures and applications: A review. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1-38	9.1	250
155	A novel technique to join Al and Mg alloys: Ultrasonic vibration assisted linear friction stir welding. <i>Materials Today: Proceedings</i> , 2018 , 5, 18142-18151	1.4	12
154	A numerical model of pin thread effect on material flow and heat generation in shear layer during friction stir welding. <i>Journal of Manufacturing Processes</i> , 2018 , 36, 10-21	5	36
153	Process and joint quality of ultrasonic vibration enhanced friction stir lap welding. <i>Science and Technology of Welding and Joining</i> , 2018 , 23, 693-703	3.7	7
152	Transient model of heat transfer and material flow at different stages of friction stir welding process. <i>Journal of Manufacturing Processes</i> , 2017 , 25, 323-339	5	53
151	Current waveform effects on CMT welding of mild steel. <i>Journal of Materials Processing Technology</i> , 2017 , 243, 395-404	5.3	31
150	Visual sensing of the weld pool geometry from the topside view in keyhole plasma arc welding. <i>Journal of Manufacturing Processes</i> , 2017 , 26, 74-83	5	21
149	Measurement of the keyhole entrance and topside weld pool geometries in keyhole plasma arc welding with dual CCD cameras. <i>Journal of Materials Processing Technology</i> , 2017 , 248, 39-48	5.3	27
148	Diminishing intermetallic compound layer in ultrasonic vibration enhanced friction stir welding of aluminum alloy to magnesium alloy. <i>Materials Letters</i> , 2017 , 203, 81-84	3.3	37
147	Application of ultrasonic vibrations in welding and metal processing: A status review. <i>Journal of Manufacturing Processes</i> , 2017 , 26, 295-322	5	131
146	Numerical simulation of temperature field, fluid flow and weld bead formation in oscillating single mode laser-GMA hybrid welding. <i>Journal of Materials Processing Technology</i> , 2017 , 242, 147-159	5.3	40
145	Numerical simulation of keyhole behaviors and fluid dynamics in laser-gas metal arc hybrid welding of ferrite stainless steel plates. <i>Journal of Manufacturing Processes</i> , 2017 , 25, 235-245	5	22

144	Numerical simulation of thermally induced residual stresses in friction stir welding of aluminum alloy 2024-T3 at different welding speeds. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 1443-1452	3.2	14
143	Precursor ultrasonic effect on grain structure development of AA6061-T6 friction stir weld. <i>Materials and Design</i> , 2017 , 116, 207-218	8.1	26
142	Influence of low current auxiliary TIG arc on high speed TIG-MIG hybrid welding. <i>Journal of Materials Processing Technology</i> , 2017 , 243, 131-142	5.3	25
141	Material flow, microstructure and mechanical properties of friction stir welded AA 2024-T3 enhanced by ultrasonic vibrations. <i>Journal of Manufacturing Processes</i> , 2017 , 30, 385-395	5	24
140	Synchronous Observation of Topside Weld Pool, Keyhole Entrance and Keyhole Exit in Keyhole Plasma Arc Welding 2017 ,		1
139	Effect of ultrasonic vibration on fatigue performance of AA 2024-T3 friction stir weld joints. <i>Journal of Manufacturing Processes</i> , 2017 , 29, 85-95	5	21
138	Effects of process parameters on weld bead defects in oscillating laser-GMA hybrid welding of lap joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 1877-1892	3.2	13
137	Influence of molten metal flow on undercutting formation in GMAW. <i>Science and Technology of Welding and Joining</i> , 2017 , 22, 198-207	3.7	10
136	Effect of ultrasonic vibration on welding load, temperature and material flow in friction stir welding. <i>Journal of Materials Processing Technology</i> , 2017 , 239, 273-283	5.3	72
135	Correlation of keyhole exit deviation distance and weld pool thermo-state in plasma arc welding process. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 310-317	4.9	23
134	Analysis of additional electromagnetic force for mitigating the humping bead in high-speed gas metal arc welding. <i>Journal of Materials Processing Technology</i> , 2016 , 229, 207-215	5.3	30
133	Effect of external magnetic field on weld pool flow conditions in high-speed gas metal arc welding. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016 , 230, 188-193	2.4	11
132	Heat input and metal transfer influences on the weld geometry and microstructure during underwater wet FCAW. <i>Journal of Materials Processing Technology</i> , 2016 , 238, 373-382	5.3	52
131	Local microstructure evolution in Al 6061-T6 friction stir weld nugget enhanced by ultrasonic vibration. <i>Materials and Design</i> , 2016 , 92, 710-723	8.1	54
130	In situ delta ferrite estimation and their effects on FCPR at different orientations of multipass shielded metal arc welded SS304L. <i>Journal of Manufacturing Processes</i> , 2016 , 21, 107-123	5	6
129	Transient variation of arc heat flux and pressure distribution on keyhole wall in PAW. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2016 , 60, 363-371	1.9	9
128	Evaluation of local strain distribution in ultrasonic enhanced Al 6061-T6 friction stir weld nugget by EBSD analysis. <i>Materials and Design</i> , 2016 , 99, 135-144	8.1	30
127	Suppression of humping bead in high speed GMAW with external magnetic field. <i>Science and Technology of Welding and Joining</i> , 2016 , 21, 131-139	3.7	23

126	Plasma arc and weld pool coupled modeling of transport phenomena in keyhole welding. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 92, 628-638	4.9	37
125	Elimination of tunnel defect in ultrasonic vibration enhanced friction stir welding. <i>Materials and Design</i> , 2016 , 90, 350-358	8.1	54
124	Subgrain formation in ultrasonic enhanced friction stir welding of aluminium alloy. <i>Materials Letters</i> , 2016 , 183, 34-39	3.3	25
123	Influence of shielding gas on undercutting formation in gas metal arc welding. <i>Journal of Materials Processing Technology</i> , 2016 , 234, 169-176	5.3	13
122	Modified constitutive equation for use in modeling the ultrasonic vibration enhanced friction stir welding process. <i>Scripta Materialia</i> , 2016 , 119, 21-26	5.6	45
121	Numerical simulation of ultrasonic field and its acoustoplastic influence on friction stir welding. <i>Materials and Design</i> , 2016 , 104, 102-115	8.1	40
120	Backward flowing molten metal in weld pool and its influence on humping bead in high-speed GMAW. <i>Journal of Materials Processing Technology</i> , 2016 , 237, 342-350	5.3	30
119	Material flow in ultrasonic vibration enhanced friction stir welding. <i>Journal of Materials Processing Technology</i> , 2015 , 225, 32-44	5.3	56
118	Effects of phase difference on the behavior of arc and weld pool in tandem P-GMAW. <i>Journal of Materials Processing Technology</i> , 2015 , 225, 45-55	5.3	31
117	Characterization of plastic deformation and material flow in ultrasonic vibration enhanced friction stir welding. <i>Scripta Materialia</i> , 2015 , 102, 95-98	5.6	115
116	Influence of temperature and alloying on the apparent diffusivity of hydrogen in high strength steel. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6714-6725	6.7	17
115	Modeling the effects of ultrasonic vibration on friction stir welding. <i>Journal of Materials Processing Technology</i> , 2015 , 222, 91-102	5.3	81
114	Numerical simulation of plasma arc welding with keyhole-dependent heat source and arc pressure distribution. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 78, 593-602	3.2	32
113	Dynamic variation of keyhole exit and its inclination in plasma arc welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015 , 59, 365-371	1.9	5
112	Analysis of heat transfer and material flow in reverse dual-rotation friction stir welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2015 , 59, 629-638	1.9	15
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