

# Wenya Li

## List of Publications by Year in descending order

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309  
papers

12,090  
citations

26567

56  
h-index

54797

84  
g-index

311  
all docs

311  
docs citations

311  
times ranked

4798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of FSW process on anisotropic of titanium alloy T-joint. <i>Materials and Manufacturing Processes</i> , 2022, 37, 25-33.	2.7	9
2	Stationary shoulder friction stir welding “ low heat input joining technique: a review in comparison with conventional FSW and bobbin tool FSW. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 865-914.	6.8	52
3	<i>Solid State Welding for Fabricating Metallic Parts and Structures.</i> , 2022, , 246-259.		5
4	Optimization of cold spray additive manufactured AA2024/Al <sub>2</sub> O <sub>3</sub> metal matrix composite with heat treatment. <i>Journal of Materials Science and Technology</i> , 2022, 106, 211-224.	5.6	28
5	Low cycle fatigue properties of friction stir welded dissimilar 2024-to-7075 aluminum alloy joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 832, 142423.	2.6	21
6	Detailed characterizations of microstructure evolution, corrosion behavior and mechanical properties of refill friction stir spot welded 2219 aluminum alloy. <i>Materials Characterization</i> , 2022, 183, 111594.	1.9	18
7	Microstructure evolution and composition redistribution of FeCoNiCrMn high entropy alloy under extreme plastic deformation. <i>Materials Research Letters</i> , 2022, 10, 124-132.	4.1	15
8	Improvement for Ti <sub>3</sub> SiC <sub>2</sub> /Cu joint brazed using composite fillers with abnormal expansion ceramic particulates. <i>Journal of the American Ceramic Society</i> , 2022, 105, 3786-3796.	1.9	9
9	Cold Spray Additive Manufacturing of Ti6Al4V: Special Nozzle Design Using Numerical Simulation and Experimental Validation. <i>Coatings</i> , 2022, 12, 210.	1.2	6
10	Corrosion susceptibility and mechanical properties of friction-stir-welded AA2024-T3 joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 951-960.	1.3	2
11	The solar wind plasma upstream of Mars observed by Tianwen-1: Comparison with Mars Express and MAVEN. <i>Science China Earth Sciences</i> , 2022, 65, 759-768.	2.3	10
12	Enhancing grain refinement and corrosion behavior in AZ31B magnesium alloy via stationary shoulder friction stir processing. <i>Journal of Materials Research and Technology</i> , 2022, 17, 3150-3156.	2.6	37
13	Local microstructure evolution and mechanical performance of friction stir additive manufactured 2195 Al-Li alloy. <i>Materials Characterization</i> , 2022, 186, 111818.	1.9	32
14	Improvement of tensile strength of cold sprayed Fe deposits via in-process powder preheating. <i>Materials Letters</i> , 2022, 316, 132090.	1.3	4
15	Fine Structures of the Electron Current Sheet in Magnetotail Guideâ€Field Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
16	Characterizations of dissimilar refill friction stir spot welding 2219 aluminum alloy joints of unequal thickness. <i>Journal of Manufacturing Processes</i> , 2022, 79, 91-101.	2.8	14
17	Analysis of local microstructure and strengthening mechanisms in adjustable-gap bobbin tool friction stir welds of Al-Mg. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1589-1595.	2.4	0
18	New insights into the effects of powder injector inner diameter and overhang length on particle accelerating behavior in cold spray additive manufacturing by numerical simulation. <i>Surface and Coatings Technology</i> , 2022, 444, 128670.	2.2	7

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19	Assessing the Bonding Interface Characteristics and Mechanical Properties of Bobbin Tool Friction Stir Welded Dissimilar Aluminum Alloy Joints. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 125-134.	1.5	8
20	Solid-state cold spraying of FeCoCrNiMn high-entropy alloy: an insight into microstructure evolution and oxidation behavior at 700-900 Å°C. <i>Journal of Materials Science and Technology</i> , 2021, 68, 172-183.	5.6	52
21	Hot deformation behavior and microstructure evolution of the laser solid formed TC4 titanium alloy. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 163-182.	2.8	20
22	Formability and mechanical property of refill friction stir spot-welded joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 899-907.	1.3	7
23	The impact of macro/microstructure features on the mechanical properties of refill friction stir spot-welded joints of AA2219 alloy with a large thickness ratio. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 3093-3103.	1.5	11
24	Formation conditions of vortex-like intermixing interfaces in cold spray. <i>Materials and Design</i> , 2021, 200, 109444.	3.3	25
25	Intergrowth Bonding Mechanism and Mechanical Property of Linear Friction Welded Dissimilar Near-Alpha to Near-Beta Titanium Alloy Joint. <i>Advanced Engineering Materials</i> , 2021, 23, 2001479.	1.6	11
26	Effect of the Electric Field on the Agyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091437.	1.5	3
27	Preliminary investigation of a novel process: synergetic double-sided probeless friction stir spot welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1441-1449.	1.3	2
28	A comparative study on the employment of heat treatment, electric pulse processing and friction stir processing to enhance mechanical properties of cold-spray-additive-manufactured copper. <i>Surface and Coatings Technology</i> , 2021, 409, 126887.	2.2	26
29	Impact of travel speed on the microstructure and mechanical properties of adjustable-gap bobbin-tool friction stir welded Al-Mg joints. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 710-717.	2.4	9
30	Kinetic Interaction of Cold and Hot Protons With an Oblique EMIC Wave Near the Dayside Reconnecting Magnetopause. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092376.	1.5	6
31	Microstructural analysis and mechanical behavior of TC4 titanium alloy and 304 stainless steel by friction stir lap welding. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2021, 65, 1915-1930.	1.3	5
32	Interfacial Bonding and Mechanical Properties of Al/Mg Dissimilar Refill Friction Stir Spot Welds Using a Grooved Tool. <i>Crystals</i> , 2021, 11, 429.	1.0	6
33	Impact of shoulder morphology on macrostructural forming and the texture development during probeless friction stir spot welding. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2042-2054.	2.6	11
34	Tensile and cyclic deformation response of friction-stir-welded dissimilar aluminum alloy joints: Strain localization effect. <i>Journal of Materials Science and Technology</i> , 2021, 73, 91-100.	5.6	10
35	Optimizing the Integrity of Linear Friction Welded Ti2AlNb Alloys. <i>Metals</i> , 2021, 11, 802.	1.0	1
36	Developing superplasticity in magnesium alloys with the help of friction stir processing and its variants - A review. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2055-2075.	2.6	41

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37	Evolution of microstructure, texture and mechanical properties of special friction stir welded T-joints for an $\alpha$ titanium alloy. <i>Materials Characterization</i> , 2021, 177, 111152.	1.9	15
38	Comparing the local-global deformation mechanism in different friction stir welding sequences of Ti-4Al-0.005B titanium alloy T-joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 823, 141698.	2.6	10
39	Al matrix composites fabricated by solid-state cold spray deposition: A critical review. <i>Journal of Materials Science and Technology</i> , 2021, 86, 20-55.	5.6	48
40	On the association between microhardness, corrosion resistance and microstructure of probeless friction stir spot welded Al-Li joint. <i>Journal of Materials Research and Technology</i> , 2021, 14, 2394-2405.	2.6	9
41	Cyclic hardening behavior and deformation mechanisms of friction-stir-welded dissimilar AA5083-to-AA2024 joints with heterogeneous microstructures. <i>Materials Characterization</i> , 2021, 181, 111465.	1.9	4
42	Corrosion Performance of Cold-Sprayed Nb-Ni-Si Coating in Molten Glass Environment. <i>Journal of Thermal Spray Technology</i> , 2021, 30, 907-917.	1.6	3
43	Effect of material configuration and welding parameter on weld formability and mechanical properties of bobbin tool friction stir welded Al-Cu and Al-Mg aluminum alloys. <i>Materials Characterization</i> , 2021, 182, 111518.	1.9	12
44	In-depth understanding of material flow behavior and refinement mechanism during bobbin tool friction stir welding. <i>International Journal of Machine Tools and Manufacture</i> , 2021, 171, 103816.	6.2	27
45	A novel approach to measure three-dimensional surface topography for stationary shoulder friction stir processing. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5608-5614.	2.6	3
46	Investigation on the Effects of Welding Speed on Bobbin Tool Friction Stir Welding of 2219 Aluminum Alloy. <i>Metals and Materials International</i> , 2020, 26, 1830-1840.	1.8	34
47	Associations of cigarette smoking with memory decline and neurodegeneration among cognitively normal older individuals. <i>Neuroscience Letters</i> , 2020, 714, 134563.	1.0	9
48	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
49	Effect of active heating and cooling on microstructure and mechanical properties of friction stir-welded dissimilar aluminium alloy and titanium butt joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2020, 64, 365-378.	1.3	17
50	Effect of solution and aging treatments on corrosion performance of laser solid formed Ti-6Al-4V alloy in a 3.5 wt. % NaCl solution. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1559-1568.	2.6	27
51	Material flow during refill friction stir spot welded dissimilar Al alloys using a grooved tool. <i>Journal of Manufacturing Processes</i> , 2020, 49, 260-270.	2.8	44
52	Solid-state cold spraying of Ti and its alloys: A literature review. <i>Progress in Materials Science</i> , 2020, 110, 100633.	16.0	123
53	Microstructural heredity and its effect on mechanical properties of linear friction welded Ti-6.5Al-3.5Mo-1.5Zr-0.3Si alloy joints. <i>Materials Characterization</i> , 2020, 168, 110540.	1.9	13
54	Chromium-Dependent Effect on Oxidation Behavior of Ni-Fe-Based Superalloy for Ultra-Supercritical Steam Turbine Applications: Influence of Temperature and Pure Steam. <i>Corrosion</i> , 2020, 76, 941-953.	0.5	4

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55	Linear friction welding of a beta titanium alloy: experimental investigations on microstructure evolution and mechanical properties. <i>Science and Technology of Welding and Joining</i> , 2020, 25, 625-636.	1.5	7
56	Lower Hybrid Waves at the Magnetosheath Separatrix Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089880.	1.5	6
57	Effect of an improved pin design on weld formability and mechanical properties of adjustable-gap bobbin-tool friction stir welded Al-Cu aluminum alloy joints. <i>Journal of Manufacturing Processes</i> , 2020, 58, 1182-1188.	2.8	17
58	Employing Cold Spray to Alter the Residual Stress Distribution of Workpieces: A Case Study on Fusion-Welded AA2219 Joints. <i>Journal of Thermal Spray Technology</i> , 2020, 29, 1538-1549.	1.6	3
59	Evolution of grain structure, $\text{Ti}_3\text{Al}$ precipitate and hardness in friction welding and post weld heat treatment of a new Ni-Fe based superalloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139596.	2.6	11
60	The associated effect of powder carrier gas and powder characteristics on the optimal design of the cold spray nozzle. <i>Surface Engineering</i> , 2020, 36, 1081-1089.	1.1	10
61	Electrochemical characterization and microstructure of cold sprayed AA5083/Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Journal of Materials Science and Technology</i> , 2020, 59, 117-128.	5.6	26
62	Strengthening mechanism of friction stir welded alpha titanium alloy specially designed T-joints. <i>Journal of Manufacturing Processes</i> , 2020, 55, 1-12.	2.8	26
63	Tailoring grain refinement through thickness in magnesium alloy via stationary shoulder friction stir processing and copper backing plate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 784, 139322.	2.6	72
64	Electron Mixing and Isotropization in the Exhaust of Asymmetric Magnetic Reconnection With a Guide Field. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087159.	1.5	4
65	A Modified Friction Stir Welding Process Based on Vortex Material Flow. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2020, 33, .	1.9	10
66	The sensitivity analysis of microstructure and mechanical properties to welding parameters for linear friction welded rail steel joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 764, 138251.	2.6	21
67	Through-thickness microstructure and mechanical properties in stationary shoulder friction stir processed AA7075. <i>Materials Science and Technology</i> , 2019, 35, 1762-1769.	0.8	36
68	Recent Development in Friction Stir Processing as a Solid-State Grain Refinement Technique: Microstructural Evolution and Property Enhancement. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 378-426.	6.8	191
69	Residual Stress, Microstructure and Mechanical Properties in Thick 6005A-T6 Aluminium Alloy Friction Stir Welds. <i>Metals</i> , 2019, 9, 803.	1.0	10
70	MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 10230-10239.	1.5	5
71	Finite element modelling for temperature, stresses and strains calculation in linear friction welding of TB9 titanium alloy. <i>Journal of Materials Research and Technology</i> , 2019, 8, 4797-4818.	2.6	30
72	Hybrid friction stir processing with active cooling approach to enhance superplastic behavior of AA7075 aluminum alloy. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 1368-1380.	1.9	53

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73	Formability of an AA5083 aluminum alloy T-joint using SSFSW on both corners. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1737-1744.	2.7	20
74	Effect of welding parameters on the microstructure and mechanical properties of linear friction welded Ti-6.5Al-3.5Mo-1.5Zr-0.3Si joints. <i>Journal of Manufacturing Processes</i> , 2019, 46, 100-108.	2.8	22
75	Surface analysis of stationary shoulder friction stir processed AZ31B magnesium alloy. <i>Materials Science and Technology</i> , 2019, 35, 628-631.	0.8	22
76	Prolonged Kelvinâ€“Helmholtz Waves at Dawn and Dusk Flank Magnetopause: Simultaneous Observations by MMS and THEMIS. <i>Astrophysical Journal</i> , 2019, 875, 57.	1.6	10
77	Microstructural Evolution, Roomâ€“and Highâ€“Temperature Mechanical Properties of Friction Welded Joints of a New Wrought Niâ€“Fe Based Superalloy. <i>Advanced Engineering Materials</i> , 2019, 21, 1900267.	1.6	3
78	Pores Structure Change Induced by Heat Treatment in Cold-Sprayed Ti6Al4V Coating. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 1199-1211.	1.6	30
79	â€“Cold spray +â€“TM as a new hybrid additive manufacturing technology: a literature review. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 420-445.	1.5	58
80	On the Process Variables and Weld Quality of a Linear Friction Welded Dissimilar Joint between S31042 and S34700 Austenitic Steels. <i>Advanced Engineering Materials</i> , 2019, 21, 1801354.	1.6	3
81	Crescentâ€“shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. <i>Geophysical Research Letters</i> , 2019, 46, 3024-3032.	1.5	17
82	Friction Stir Welding of Dissimilar Aluminum Alloy Combinations: State-of-the-Art. <i>Metals</i> , 2019, 9, 270.	1.0	87
83	Stationary Shoulder Friction Stir Processing: A Low Heat Input Grain Refinement Technique for Magnesium Alloy. <i>Minerals, Metals and Materials Series</i> , 2019, , 209-215.	0.3	6
84	Homogeneous Grain Refinement and Ductility Enhancement in AZ31B Magnesium Alloy Using Friction Stir Processing. <i>Minerals, Metals and Materials Series</i> , 2019, , 83-87.	0.3	5
85	Advanced brass-based composites via cold-spray additive-manufacturing and its potential in component repairing. <i>Surface and Coatings Technology</i> , 2019, 371, 211-223.	2.2	41
86	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10048-10062.	0.8	17
87	Microstructure and properties of probeless friction stir spot welding of AZ31 magnesium alloy joints. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 2300-2309.	1.7	23
88	Improving microstructural and tensile properties of AZ31B magnesium alloy joints by stationary shoulder friction stir welding. <i>Journal of Manufacturing Processes</i> , 2019, 37, 159-167.	2.8	60
89	Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. <i>Materials Characterization</i> , 2019, 147, 93-100.	1.9	69
90	Stationary shoulder tool in friction stir processing: a novel low heat input tooling system for magnesium alloy. <i>Materials and Manufacturing Processes</i> , 2019, 34, 177-182.	2.7	80

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91	Microstructural evolution and mechanical properties of a linear friction welded two-phase Ti-6.5Al-3.5Mo-1.5Zr-0.3Si titanium alloy joint. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 12-23.	2.6	27
92	Thermal Spray Technology. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-2.	1.0	8
93	Deposition of FeCoNiCrMn high entropy alloy (HEA) coating via cold spraying. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1003-1007.	5.6	158
94	On the double-side probeless friction stir spot welding of AA2198 Al-Li alloy. <i>Journal of Materials Science and Technology</i> , 2019, 35, 784-789.	5.6	20
95	Numerical simulation and experimental investigation of band patterns in bobbin tool friction stir welding of aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 2679-2687.	1.5	34
96	Cyclic deformation behavior of friction-stir-welded dissimilar AA5083-to-AA2024 joints: Effect of microstructure and loading history. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 744, 145-153.	2.6	25
97	Hot corrosion behavior of three different zones of linear friction welded Ti-22Al-25Nb alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 612-622.	0.8	7
98	Experimental and numerical investigations of bonding interface behavior in stationary shoulder friction stir lap welding. <i>Journal of Materials Science and Technology</i> , 2019, 35, 192-200.	5.6	48
99	Effect of welding speed on microstructures and mechanical properties of Al/Cu bimetal composite tubes by a novel friction-based welding process. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2019, 63, 127-136.	1.3	5
100	Impact of surface state in probeless friction stir spot welding of an Al-Li alloy. <i>Science and Technology of Welding and Joining</i> , 2019, 24, 200-208.	1.5	9
101	Using friction stir processing to augment corrosion resistance of cold sprayed AA2024/Al <sub>2</sub> O <sub>3</sub> composite coatings. <i>Journal of Alloys and Compounds</i> , 2019, 774, 1223-1232.	2.8	42
102	Microstructures and wear-corrosion performance of vacuum plasma sprayed and cold gas dynamic sprayed Muntz alloy coatings. <i>Surface and Coatings Technology</i> , 2019, 371, 172-184.	2.2	8
103	A Review of Advanced Composite and Nanostructured Coatings by Solid-State Cold Spraying Process. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2019, 44, 109-156.	6.8	50
104	Influence of alloyed Fe on corrosion of Ni-Cr alloys in molten silicates and the effects of pre-oxidation treatment. <i>Corrosion Science</i> , 2018, 134, 179-188.	3.0	6
105	Influence of rotation speed on mechanical properties and corrosion sensitivity of friction stir welded AA2024-T3 joints. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 1016-1024.	0.8	14
106	Microstructures and microhardness for sheets and TIG welded joints of TA15 alloy using friction stir spot processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 55-65.	1.7	12
107	Optimization of cold-sprayed AA2024/Al <sub>2</sub> O <sub>3</sub> metal matrix composites via friction stir processing: Effect of rotation speeds. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2167-2177.	5.6	47
108	Microstructure and mechanical optimization of probeless friction stir spot welded joint of an Al-Li alloy. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1739-1746.	5.6	56

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109	Cold spray additive manufacturing and repair: Fundamentals and applications. Additive Manufacturing, 2018, 21, 628-650.	1.7	269
110	Anisotropic response of cold sprayed copper deposits. Surface and Coatings Technology, 2018, 335, 219-227.	2.2	32
111	Characterizations and anisotropy of cold-spraying additive-manufactured copper bulk. Journal of Materials Science and Technology, 2018, 34, 1570-1579.	5.6	66
112	An investigation into the mechanism for enhanced mechanical properties in friction stir welded AA2024-T3 joints coated with cold spraying. Applied Surface Science, 2018, 439, 623-631.	3.1	18
113	Mechanical property improvement induced by nanoscaled deformation twins in cold-sprayed Cu coatings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 727, 119-122.	2.6	16
114	Post-spray modification of cold-sprayed Ni-Ti coatings by high-temperature vacuum annealing and friction stir processing. Applied Surface Science, 2018, 451, 56-66.	3.1	38
115	Effects of microstructural asymmetries across friction stir welded AA2024 joints on mechanical properties. Science and Technology of Welding and Joining, 2018, 23, 58-62.	1.5	12
116	Solid-state additive manufacturing and repairing by cold spraying: A review. Journal of Materials Science and Technology, 2018, 34, 440-457.	5.6	238
117	Microstructure and morphology evolution of probeless friction stir spot welded joints of aluminum alloy. Journal of Materials Processing Technology, 2018, 252, 69-80.	3.1	57
118	Microstructure evolution and mechanical properties of linear friction welded S31042 heat-resistant steel. Journal of Materials Science and Technology, 2018, 34, 653-659.	5.6	33
119	Improving weld formability by a novel dual-rotation bobbin tool friction stir welding. Journal of Materials Science and Technology, 2018, 34, 135-139.	5.6	44
120	Metal Matrix Composite Coatings by Cold Spray. , 2018, , 297-318.		7
121	Cold sprayed AA2024/Al <sub>2</sub> O <sub>3</sub> metal matrix composites improved by friction stir processing: Microstructure characterization, mechanical performance and strengthening mechanisms. Journal of Alloys and Compounds, 2018, 736, 115-123.	2.8	79
122	On microstructure and property differences in a linear friction welded near-alpha titanium alloy joint. Journal of Manufacturing Processes, 2018, 36, 255-263.	2.8	25
123	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particle-in-Cell Simulations and Spacecraft Observations. Geophysical Research Letters, 2018, 45, 10,033.	1.5	17
124	Numerical analysis of material flow in the probeless friction stir spot welding based on Coupled Eulerian-Lagrangian approach. Journal of Manufacturing Processes, 2018, 36, 181-187.	2.8	44
125	Corrosion characteristics and wear performance of cold sprayed coatings of reinforced Al deposited onto friction stir welded AA2024-T3 joints. Surface and Coatings Technology, 2018, 349, 1069-1076.	2.2	20
126	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. Journal of Geophysical Research: Space Physics, 2018, 123, 3836-3847.	0.8	13



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127	Strain hardening behavior and mechanisms of friction stir welded dissimilar joints of aluminum alloys. <i>Materials Letters</i> , 2018, 231, 68-71.	1.3	29
128	Effect of heat treatment on the inherent anisotropy of cold sprayed copper deposits. <i>Surface and Coatings Technology</i> , 2018, 350, 519-530.	2.2	25
129	On visualizing material flow and precipitate evolution during probeless friction stir spot welding of an Al-Li alloy. <i>Materials Characterization</i> , 2018, 144, 336-344.	1.9	14
130	Linear friction welding of a solid-solution strengthened Ni-based superalloy: Microstructure evolution and mechanical properties studies. <i>Journal of Manufacturing Processes</i> , 2018, 34, 442-450.	2.8	28
131	Numerical modelling and experimental investigation of thermal and material flow in probeless friction stir spot welding process of Al 2198-T8. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 704-714.	1.5	29
132	Effect and role of alloyed yttrium on the fireside corrosion behaviour of Ni-Fe based alloys for 750°C ultra-supercritical boiler applications. <i>Corrosion Science</i> , 2018, 143, 148-156.	3.0	6
133	Significant effect of oxide on mechanical properties of friction-stir-welded AA2024 joints. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 66-70.	1.5	15
134	In-situ formation of Ni-Al intermetallics-coated graphite/Al composite in a cold-sprayed coating and its high temperature tribological behaviors. <i>Journal of Materials Science and Technology</i> , 2017, 33, 507-515.	5.6	29
135	Microstructural evolution and mechanical properties enhancement of a cold-sprayed Cu Zn alloy coating with friction stir processing. <i>Materials Characterization</i> , 2017, 125, 76-82.	1.9	64
136	Study of process/structure/property relationships in probeless friction stir spot welded AA2198 Al-Li alloy. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2017, 61, 291-298.	1.3	15
137	Corrosion performance and mechanical properties of friction stir welded AA2024-T3 joints under different corrosion solution exposure. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 970-976.	0.8	11
138	Observations of kinetic-size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1990-2000.	0.8	70
139	Global and local constitutive behaviors of friction stir welded AA2024 joints. <i>Journal of Materials Science and Technology</i> , 2017, 33, 987-990.	5.6	35
140	Studies of the interfacial structure of a linear friction welded Fe/Ni joint: First principles calculation and TEM validation. <i>Materials Characterization</i> , 2017, 129, 60-66.	1.9	7
141	Microstructural evolution and mechanical properties of electron beam welded dissimilar titanium alloy joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 697, 224-232.	2.6	19
142	Characterisation studies of linear friction welded titanium joints. <i>Materials and Design</i> , 2017, 116, 115-126.	3.3	37
143	Mass and Energy Transfer Across the Earth's Magnetopause Caused by Vortex-Induced Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,505.	0.8	35
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