

# Wenya Li

## List of Publications by Year in descending order

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309  
papers

12,090  
citations

26567

56  
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54797

84  
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311  
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311  
docs citations

311  
times ranked

4798  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition characteristics of titanium coating in cold spraying. <i>Surface and Coatings Technology</i> , 2003, 167, 278-283.	2.2	308
2	Cold spray additive manufacturing and repair: Fundamentals and applications. <i>Additive Manufacturing</i> , 2018, 21, 628-650.	1.7	269
3	Linear and rotary friction welding review. <i>International Materials Reviews</i> , 2016, 61, 71-100.	9.4	257
4	Solid-state additive manufacturing and repairing by cold spraying: A review. <i>Journal of Materials Science and Technology</i> , 2018, 34, 440-457.	5.6	238
5	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
6	Examination of the Critical Velocity for Deposition of Particles in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 212-222.	1.6	187
7	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
8	On high velocity impact of micro-sized metallic particles in cold spraying. <i>Applied Surface Science</i> , 2006, 253, 2852-2862.	3.1	155
9	Deposition behavior of thermally softened copper particles in cold spraying. <i>Acta Materialia</i> , 2013, 61, 5105-5118.	3.8	150
10	Numerical simulation of deformation behavior of Al particles impacting on Al substrate and effect of surface oxide films on interfacial bonding in cold spraying. <i>Applied Surface Science</i> , 2007, 253, 5084-5091.	3.1	130
11	Numerical simulation of linear friction welding of titanium alloy: Effects of processing parameters. <i>Materials &amp; Design</i> , 2010, 31, 1497-1507.	5.1	130
12	Effect of Annealing Treatment on the Microstructure and Properties of Cold-Sprayed Cu Coating. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 206-211.	1.6	127
13	Microstructural characterization and abrasive wear performance of HVOF sprayed Cr <sub>3</sub> C <sub>2</sub> -NiCr coating. <i>Surface and Coatings Technology</i> , 2006, 200, 6749-6757.	2.2	124
14	Solid-state cold spraying of Ti and its alloys: A literature review. <i>Progress in Materials Science</i> , 2020, 110, 100633.	16.0	123
15	Some aspects on 3D numerical modeling of high velocity impact of particles in cold spraying by explicit finite element analysis. <i>Applied Surface Science</i> , 2009, 255, 7878-7892.	3.1	122
16	Formation of metastable phases in cold-sprayed soft metallic deposit. <i>Surface and Coatings Technology</i> , 2005, 198, 469-473.	2.2	119
17	Effect of tool rotational speed on the microstructure and mechanical properties of bobbin tool friction stir welding of Al-Li alloy. <i>Materials and Design</i> , 2015, 86, 933-940.	3.3	118
18	Gas Flow, Particle Acceleration, and Heat Transfer in Cold Spray: A review. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 874-896.	1.6	111

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19	Effects of tool rotational and welding speed on microstructure and mechanical properties of bobbin-tool friction-stir welded Mg AZ31. <i>Materials &amp; Design</i> , 2014, 64, 714-720.	5.1	111
20	Significant influence of particle surface oxidation on deposition efficiency, interface microstructure and adhesive strength of cold-sprayed copper coatings. <i>Applied Surface Science</i> , 2010, 256, 4953-4958.	3.1	110
21	Study on impact fusion at particle interfaces and its effect on coating microstructure in cold spraying. <i>Applied Surface Science</i> , 2007, 254, 517-526.	3.1	103
22	Influence of Spray Materials and Their Surface Oxidation on the Critical Velocity in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 95-101.	1.6	102
23	Optimal Design of a Novel Cold Spray Gun Nozzle at a Limited Space. <i>Journal of Thermal Spray Technology</i> , 2005, 14, 391-396.	1.6	101
24	Deformation behavior of the oxide film on the surface of cold sprayed powder particle. <i>Applied Surface Science</i> , 2012, 259, 294-300.	3.1	96
25	Improving mechanical properties of pinless friction stir spot welded joints by eliminating hook defect. <i>Materials &amp; Design</i> , 2014, 62, 247-254.	5.1	95
26	Numerical investigations of the effect of oblique impact on particle deformation in cold spraying by the SPH method. <i>Applied Surface Science</i> , 2010, 256, 3725-3734.	3.1	94
27	Modeling Aspects of High Velocity Impact of Particles in Cold Spraying by Explicit Finite Element Analysis. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 921-933.	1.6	92
28	Friction Stir Welding of Dissimilar Aluminum Alloy Combinations: State-of-the-Art. <i>Metals</i> , 2019, 9, 270.	1.0	87
29	Ti and Ti-6Al-4V Coatings by Cold Spraying and Microstructure Modification by Heat Treatment. <i>Advanced Engineering Materials</i> , 2007, 9, 418-423.	1.6	86
30	Global anisotropic response of friction stir welded 2024 aluminum sheets. <i>Acta Materialia</i> , 2015, 92, 117-125.	3.8	84
31	Significant influences of metal reactivity and oxide films at particle surfaces on coating microstructure in cold spraying. <i>Applied Surface Science</i> , 2007, 253, 3557-3562.	3.1	82
32	Effect of friction time on flash shape and axial shortening of linear friction welded 45 steel. <i>Materials Letters</i> , 2008, 62, 293-296.	1.3	82
33	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
34	Cold sprayed AA2024/Al 2 O 3 metal matrix composites improved by friction stir processing: Microstructure characterization, mechanical performance and strengthening mechanisms. <i>Journal of Alloys and Compounds</i> , 2018, 736, 115-123.	2.8	79
35	Effect of sprayed powder particle size on the oxidation behavior of MCrAlY materials during high velocity oxygen-fuel deposition. <i>Surface and Coatings Technology</i> , 2003, 162, 31-41.	2.2	78
36	A theoretical model for prediction of deposition efficiency in cold spraying. <i>Thin Solid Films</i> , 2005, 489, 79-85.	0.8	77

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37	Low temperature deposition and characterization of TiO <sub>2</sub> photocatalytic film through cold spray. <i>Applied Surface Science</i> , 2008, 254, 3979-3982.	3.1	75
38	Modification of a cold sprayed SiC p /Al5056 composite coating by friction stir processing. <i>Surface and Coatings Technology</i> , 2016, 296, 69-75.	2.2	75
39	Effect of substrate hardness on the deformation behavior of subsequently incident particles in cold spraying. <i>Applied Surface Science</i> , 2011, 257, 7560-7565.	3.1	74
40	Effect of welding parameters on mechanical and fatigue properties of friction stir welded 2198 T8 aluminum–lithium alloy joints. <i>Engineering Fracture Mechanics</i> , 2013, 114, 1-11.	2.0	74
41	Effects of sliding velocity and applied load on the tribological mechanism of amorphous poly-ether–ether–ketone (PEEK). <i>Tribology International</i> , 2008, 41, 79-86.	3.0	72
42	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
43	Microstructure, mechanical property and wear performance of cold sprayed Al5056/SiCp composite coatings: Effect of reinforcement content. <i>Applied Surface Science</i> , 2014, 289, 188-196.	3.1	70
44	Observations of kinetic–size magnetic holes in the magnetosheath. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1990-2000.	0.8	70
45	Examination on the Calculation Method for Modeling the Multi-Particle Impact Process in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 1032-1041.	1.6	69
46	Effect of substrate temperature on interfacial bonding for cold spray of Ni onto Cu. <i>Journal of Materials Science</i> , 2015, 50, 7448-7457.	1.7	69
47	Exfoliation corrosion of friction stir welded dissimilar 2024-to-7075 aluminum alloys. <i>Materials Characterization</i> , 2019, 147, 93-100.	1.9	69
48	Characterizations and anisotropy of cold-spraying additive-manufactured copper bulk. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1570-1579.	5.6	66
49	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
50	Structures and tribological performances of PEEK (poly-ether-ether-ketone)-based coatings designed for tribological application. <i>Progress in Organic Coatings</i> , 2007, 60, 39-44.	1.9	63
51	Investigation of the microstructure and tribological behavior of cold-sprayed tin-bronze-based composite coatings. <i>Applied Surface Science</i> , 2009, 255, 3822-3828.	3.1	63
52	Friction Stir Spot Welding: A Review on Joint Macro- and Microstructure, Property, and Process Modelling. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-11.	1.0	63
53	Effect of impact-induced melting on interface microstructure and bonding of cold-sprayed zinc coating. <i>Applied Surface Science</i> , 2010, 257, 1516-1523.	3.1	62
54	Optimal design of a convergent-barrel cold spray nozzle by numerical method. <i>Applied Surface Science</i> , 2006, 253, 708-713.	3.1	61

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55	Characterizations of cold-sprayed Nickel-Alumina composite coating with relatively large Nickel-coated Alumina powder. <i>Surface and Coatings Technology</i> , 2008, 202, 4855-4860.	2.2	61
56	Effect of particle and substrate preheating on particle deformation behavior in cold spraying. <i>Surface and Coatings Technology</i> , 2013, 220, 174-178.	2.2	61
57	Modeling of continuous drive friction welding of mild steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5921-5926.	2.6	60
58	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
59	~Cold spray +™ 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
60	Modelling of impact behaviour of cold spray particles: review. <i>Surface Engineering</i> , 2014, 30, 299-308.	1.1	57
61	Microstructure and morphology evolution of probeless friction stir spot welded joints of aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2018, 252, 69-80.	3.1	57
62	Adaptive Service Composition Based on Reinforcement Learning. <i>Lecture Notes in Computer Science</i> , 2010, , 92-107.	1.0	57
63	Characterizations of cold sprayed TiN particle reinforced Al2319 composite coating. <i>Journal of Materials Processing Technology</i> , 2008, 202, 508-513.	3.1	56
64	Finite Element Simulation of Impacting Behavior of Particles in Cold Spraying by Eulerian Approach. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 745-752.	1.6	56
65	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
66	Microstructural Characterization of Cold-Sprayed Nanostructured FeAl Intermetallic Compound Coating and its Ball-Milled Feedstock Powders. <i>Journal of Thermal Spray Technology</i> , 2007, 16, 669-676.	1.6	55
67	Effect and role of alloyed Nb on the air oxidation behaviour of Ni-Cr-Fe alloys at 1000 °C. <i>Corrosion Science</i> , 2017, 127, 10-20.	3.0	55
68	Microstructure evolution and mechanical properties of linear friction welded Ti2AlNb alloy. <i>Journal of Alloys and Compounds</i> , 2015, 646, 490-496.	2.8	54
69	Mechanical properties and fatigue crack growth rates in friction stir welded nugget of 2198-T8 Al-Li alloy joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 569, 41-47.	2.6	53
70	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
71	Solid-state cold spraying of FeCoCrNiMn high-entropy alloy: an insight into microstructure evolution and oxidation behavior at 700-900 °C. <i>Journal of Materials Science and Technology</i> , 2021, 68, 172-183.	5.6	52
72	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

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73	Finite element modeling of the linear friction welding of GH4169 superalloy. <i>Materials and Design</i> , 2015, 87, 215-230.	3.3	51
74	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
75	Effect of Process Conditions on Microstructure and Corrosion Resistance of Cold-Sprayed Ti Coatings. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 736-741.	1.6	49
76	Residual Stress Analysis of Cold-Sprayed Copper Coatings by Numerical Simulation. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 131-142.	1.6	49
77	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
78	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
79	Microstructure Evolution and Mechanical Properties of Linear Friction Welded 45 Steel Joint. <i>Advanced Engineering Materials</i> , 2007, 9, 703-707.	1.6	47
80	Corrosion behavior of cold sprayed titanium protective coating on 1Cr13 substrate in seawater. <i>Surface and Coatings Technology</i> , 2007, 201, 5203-5206.	2.2	47
81	Periodic variation of torque and its relations to interfacial sticking and slipping during friction stir welding. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 338-341.	1.5	47
82	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
83	Thermo-physical simulation of the compression testing for constitutive modeling of GH4169 superalloy during linear friction welding. <i>Journal of Alloys and Compounds</i> , 2016, 656, 395-407.	2.8	46
84	Microstructure and mechanical property of linear friction welded nickel-based superalloy joint. <i>Materials and Design</i> , 2016, 89, 85-93.	3.3	46
85	Prediction of Critical Velocity During Cold Spraying Based on a Coupled Thermomechanical Eulerian Model. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 60-67.	1.6	44
86	Improving weld formability by a novel dual-rotation bobbin tool friction stir welding. <i>Journal of Materials Science and Technology</i> , 2018, 34, 135-139.	5.6	44
87	Numerical analysis of material flow in the probeless friction stir spot welding based on Coupled Eulerian-Lagrangian approach. <i>Journal of Manufacturing Processes</i> , 2018, 36, 181-187.	2.8	44
88	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
89	Microstructure, microhardness and dry friction behavior of cold-sprayed tin bronze coatings. <i>Applied Surface Science</i> , 2007, 254, 1482-1488.	3.1	43
90	Properties of Kelvin-Helmholtz waves at the magnetopause under northward interplanetary magnetic field: Statistical study. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7485-7494.	0.8	43

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91	Effect of Ball Milling of Feedstock Powder on Microstructure and Properties of TiN Particle-Reinforced Al Alloy-Based Composites Fabricated by Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2008, 17, 316-322.	1.6	42
92	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
93	Study on gas permeation behaviour through atmospheric plasma-sprayed yttria stabilized zirconia coating. <i>Surface and Coatings Technology</i> , 2008, 202, 5055-5061.	2.2	41
94	Effects of post-weld heat treatment on microstructure and mechanical properties of linear friction welded Ti <sub>2</sub> AlNb alloy. <i>Materials and Design</i> , 2016, 94, 45-53.	3.3	41
95	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
96	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
97	Numerical Simulation of Friction Welding Processes Based on ABAQUS Environment. <i>Journal of Engineering Science and Technology Review</i> , 2012, 5, 10-19.	0.2	41
98	Effects of gas temperature and ceramic particle content on microstructure and microhardness of cold sprayed SiCp/Al 5056 composite coatings. <i>Surface and Coatings Technology</i> , 2013, 220, 102-106.	2.2	40
99	Effect of Substrate Type on Deposition Behavior and Wear Performance of Ni-Coated Graphite/Al Composite Coatings Deposited by Cold Spraying. <i>Journal of Materials Science and Technology</i> , 2017, 33, 338-346.	5.6	40
100	Improving mechanical properties of friction stir welded AA2024-T3 joints by using a composite backplate. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 598, 312-318.	2.6	39
101	Effect of cold sprayed Al coating on mechanical property and corrosion behavior of friction stir welded AA2024-T351 joint. <i>Materials &amp; Design</i> , 2015, 65, 757-761.	5.1	39
102	Rsf-1 Influences the Sensitivity of Non-Small Cell Lung Cancer to Paclitaxel by Regulating NF- $\kappa$ B Pathway and Its Downstream Proteins. <i>Cellular Physiology and Biochemistry</i> , 2017, 44, 2322-2336.	1.1	39
103	Erosion Performance of HVOF-Sprayed Cr <sub>3</sub> C <sub>2</sub> -NiCr Coatings. <i>Journal of Thermal Spray Technology</i> , 2007, 16, 557-565.	1.6	38
104	Numerical Investigation on Effects of Interactions Between Particles on Coating Formation in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2009, 18, 686-693.	1.6	38
105	Computational analysis of the effect of nozzle cross-section shape on gas flow and particle acceleration in cold spraying. <i>Surface and Coatings Technology</i> , 2011, 205, 2970-2977.	2.2	38
106	Post-spray modification of cold-sprayed Ni-Ti coatings by high-temperature vacuum annealing and friction stir processing. <i>Applied Surface Science</i> , 2018, 451, 56-66.	3.1	38
107	Characterization of YSZ Solid Oxide Fuel Cells Electrolyte Deposited by Atmospheric Plasma Spraying and Low Pressure Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 598-603.	1.6	37
108	Numerical Study on the Effect of Substrate Angle on Particle Impact Velocity and Normal Velocity Component in Cold Gas Dynamic Spraying Based on CFD. <i>Journal of Thermal Spray Technology</i> , 2010, 19, 1155-1162.	1.6	37

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109	Microstructure Evolution and Mechanical Properties of Linear Friction Welded Ti-5Al-2Sn-2Zr-4Mo-4Cr (Ti17) Titanium Alloy Joints. <i>Advanced Engineering Materials</i> , 2010, 12, 35-43.	1.6	37
110	Effect of vacuum heat treatment on microstructure and microhardness of cold-sprayed TiN particle-reinforced Al alloy-based composites. <i>Materials &amp; Design</i> , 2011, 32, 388-394.	5.1	37
111	Spatial distribution of Kelvin-Helmholtz instability at low-latitude boundary layer under different solar wind speed conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	37
112	Effect of backplate diffusivity on microstructure and mechanical properties of friction stir welded joints. <i>Materials &amp; Design</i> , 2013, 50, 551-557.	5.1	37
113	Crystallographic Texture in Bobbin Tool Friction-Stir-Welded Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 2809-2813.	1.1	37
114	Microstructural evolution and mechanical properties of linear friction welded Ti2AlNb joint during solution and aging treatment. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 668, 125-136.	2.6	37
115	Interface behavior of particles upon impacting during cold spraying of Cu/Ni/Al mixture. <i>Materials and Design</i> , 2016, 95, 237-246.	3.3	37
116	Characterisation studies of linear friction welded titanium joints. <i>Materials and Design</i> , 2017, 116, 115-126.	3.3	37
117	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
118	Characterizations of 21-4N to 4Cr9Si2 stainless steel dissimilar joint bonded by electric-resistance-heat-aided friction welding. <i>Materials &amp; Design</i> , 2009, 30, 4230-4235.	5.1	36
119	Effect of Substrate Preheating on Bonding Strength of Cold-Sprayed Mg Coatings. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 1091-1098.	1.6	36
120	Detection of oxygen at the interface and its effect on strain, stress, and temperature at the interface between cold sprayed aluminum and steel substrate. <i>Applied Surface Science</i> , 2015, 357, 1720-1726.	3.1	36
121	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
122	Formation mechanism of linear friction welded Ti-6Al-4V alloy joint based on microstructure observation. <i>Materials Characterization</i> , 2011, 62, 130-135.	1.9	35
123	Numerical Analysis of Cold Spray Particles Impacting Behavior by the Eulerian Method: A Review. <i>Journal of Thermal Spray Technology</i> , 2016, 25, 1441-1460.	1.6	35
124	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
125	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
126	Modelling of entire friction stir welding process by explicit finite element method. <i>Materials Science and Technology</i> , 2012, 28, 812-817.	0.8	34



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127	Effect of Rotation Speed to Welding Speed Ratio on Microstructure and Mechanical Behavior of Friction Stir Welded Aluminum-Titanium Alloy Joints. <i>Advanced Engineering Materials</i> , 2013, 15, 1051-1058.	1.6	34
128	Metal Flow during Friction Stir Welding of 7075-T651 Aluminum Alloy. <i>Experimental Mechanics</i> , 2013, 53, 1573-1582.	1.1	34
129	Investigation on mechanical property of annealed copper particles and cold sprayed copper coating by a micro-indentation testing. <i>Materials &amp; Design</i> , 2013, 46, 219-226.	5.1	34
130	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
131	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
132	Effect of post-weld heat treatment on microstructure and property of linear friction welded Ti17 titanium alloy joint. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 180-185.	1.5	33
133	Microstructure evolution and mechanical properties of linear friction welded S31042 heat-resistant steel. <i>Journal of Materials Science and Technology</i> , 2018, 34, 653-659.	5.6	33
134	Preparation and characterization of magnesium coating deposited by cold spraying. <i>Journal of Materials Processing Technology</i> , 2012, 212, 100-105.	3.1	32
135	Microstructure and mechanical behaviour of pinless friction stir spot welded AA2198 joints. <i>Science and Technology of Welding and Joining</i> , 2016, 21, 164-170.	1.5	32
136	Anisotropic response of cold sprayed copper deposits. <i>Surface and Coatings Technology</i> , 2018, 335, 219-227.	2.2	32
137	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
138	Effect of heat treatment on microstructure and mechanical properties of cold sprayed Ti coatings with relatively large powder particles. <i>Journal of Coatings Technology Research</i> , 2009, 6, 401-406.	1.2	31
139	Investigation of high temperature oxidation behavior and tribological performance on cold sprayed nickel-alumina composite coating. <i>Surface and Coatings Technology</i> , 2014, 239, 95-101.	2.2	31
140	3D Finite Element Analysis of the Effect of Process Parameters on Linear Friction Welding of Mild Steel. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 4010-4018.	1.2	31
141	Strain-controlled fatigue properties of linear friction welded dissimilar joints between Ti-6Al-4V and Ti-6.5Al-3.5Mo-1.5Zr-0.3Si alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 612, 80-88.	2.6	31
142	Interface microstructure evolution and mechanical properties of Al/Cu bimetallic tubes fabricated by a novel friction-based welding technology. <i>Materials and Design</i> , 2017, 134, 383-393.	3.3	31
143	Deposition characteristics of Al-12Si alloy coating fabricated by cold spraying with relatively large powder particles. <i>Applied Surface Science</i> , 2007, 253, 7124-7130.	3.1	30
144	Magnetohydrodynamics (MHD) numerical simulations on the interaction of the solar wind with the magnetosphere: A review. <i>Science China Earth Sciences</i> , 2013, 56, 1141-1157.	2.3	30

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145	The magnetosphere under the radial interplanetary magnetic field: A numerical study. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7674-7682.	0.8	30
146	Process parameter analysis of inertia friction welding nickel-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 1909-1918.	1.5	30
147	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
148	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
149	Effect of heat treatment on the microstructure and microhardness of cold-sprayed tin bronze coating. <i>Applied Surface Science</i> , 2007, 253, 5967-5971.	3.1	29
150	Sample geometry and size effects on tensile properties of friction stir welded AA2024 joints. <i>Materials Letters</i> , 2016, 162, 94-96.	1.3	29
151	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
152	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
153	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
154	On microstructure and mechanical properties of linear friction welded dissimilar Ti-6Al-4V and Ti-6Al-3.5Mo-1.5Zr-0.3Si joint. <i>Science and Technology of Welding and Joining</i> , 2012, 17, 9-12.	1.5	28
155	Heat reflux in flash and its effect on joint temperature history during linear friction welding of steel. <i>International Journal of Thermal Sciences</i> , 2013, 67, 192-199.	2.6	28
156	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
157	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
158	Examination on Substrate Preheating Process in Cold Gas Dynamic Spraying. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 852-859.	1.6	27
159	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
160	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
161	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
162	Measurement and Numerical Simulation of Particle Velocity in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2006, 15, 559-562.	1.6	26

#	ARTICLE	IF	CITATIONS
163	Numerical Analysis of Joint Temperature Evolution During Friction Stir Welding Based on Sticking Contact. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1849-1856.	1.2	26
164	A Generalized Critical Velocity Window Based on Material Property for Cold Spraying by Eulerian Method. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 557-566.	1.6	26
165	Electron Bernstein waves driven by electron crescents near the electron diffusion region. <i>Nature Communications</i> , 2020, 11, 141.	5.8	26
166	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
167	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
168	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
169	Global features of Kelvin-Helmholtz waves at the magnetopause for northward interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5118-5126.	0.8	25
170	Physical simulation of interfacial microstructure evolution for hot compression bonding behavior in linear friction welded joints of GH4169 superalloy. <i>Materials and Design</i> , 2016, 104, 436-452.	3.3	25
171	On microstructure and property differences in a linear friction welded near-alpha titanium alloy joint. <i>Journal of Manufacturing Processes</i> , 2018, 36, 255-263.	2.8	25
172	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
173	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
174	Formation conditions of vortex-like intermixing interfaces in cold spray. <i>Materials and Design</i> , 2021, 200, 109444.	3.3	25
175	Numerical study on the effect of nozzle dimension on particle distribution in cold spraying. <i>Surface and Coatings Technology</i> , 2013, 220, 107-111.	2.2	24
176	Abnormal microstructure in the weld zone of linear friction welded Ti-6.5Al-3.5Mo-1.5Zr-0.3Si titanium alloy joint and its influence on joint properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 599, 38-45.	2.6	24
177	Cyclic deformation behavior of linear friction welded Ti6Al4V joints. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 408-414.	2.6	24
178	FEM analysis of temperature distribution and experimental study of microstructure evolution in friction interface of GH4169 superalloy. <i>Materials and Design</i> , 2015, 84, 133-143.	3.3	24
179	Effect of different incidence angles on bonding performance in cold spraying. <i>Transactions of Nonferrous Metals Society of China</i> , 2007, 17, 116-121.	1.7	23
180	Numerical Simulation of Linear Friction Welding Based on ABAQUS Environment: Challenges and Perspectives. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 384-390.	1.2	23

#	ARTICLE	IF	CITATIONS
181	Effective predictions of ultimate tensile strength, peak temperature and grain size of friction stir welded AA2024 alloy joints. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 73, 1213-1218.	1.5	23
182	Microstructure and anisotropic mechanical behavior of friction stir welded AA2024 alloy sheets. <i>Materials Characterization</i> , 2015, 107, 112-118.	1.9	23
183	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
184	Ball milled Niâ€“Ti powder deposited by cold spraying. <i>Journal of Alloys and Compounds</i> , 2009, 483, 334-336.	2.8	22
185	An Investigation on Temperature Distribution Within the Substrate and Nozzle Wall in Cold Spraying by Numerical and Experimental Methods. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 41-48.	1.6	22
186	Flow Behavior and Processing Maps of a Low-Carbon Steel During Hot Deformation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 6052-6064.	1.1	22
187	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
188	Surface analysis of stationary shoulder friction stir processed AZ31B magnesium alloy. <i>Materials Science and Technology</i> , 2019, 35, 628-631.	0.8	22
189	Characterizations of Cold-sprayed TiN Particle-reinforced Al Alloy-based Composites â€“ from Structures to Tribological Behaviour. <i>Advanced Engineering Materials</i> , 2007, 9, 577-583.	1.6	21
190	Microstructure evolution in a single crystal nickel-based superalloy joint by linear friction welding. <i>Materials and Design</i> , 2015, 85, 613-617.	3.3	21
191	Global and local mechanical properties and microstructure of Bobbin tool friction-stir-welded Alâ€“Li alloy. <i>Science and Technology of Welding and Joining</i> , 2016, 21, 479-483.	1.5	21
192	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
193	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
194	Characterization of cold-sprayed nanostructured Fe-based alloy. <i>Applied Surface Science</i> , 2010, 256, 2193-2198.	3.1	20
195	Impact of cold spraying on microstructure and mechanical properties of optimized friction stir welded AA2024-T3 joint. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 73-80.	2.6	20
196	Corrosion characteristics and wear performance of cold sprayed coatings of reinforced Al deposited onto friction stir welded AA2024-T3 joints. <i>Surface and Coatings Technology</i> , 2018, 349, 1069-1076.	2.2	20
197	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
198	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

#	ARTICLE	IF	CITATIONS
199	Hot deformation behavior and microstructure evolution of the laser solid formed TC4 titanium alloy. Chinese Journal of Aeronautics, 2021, 34, 163-182.	2.8	20
200	Influence of Parent Metal Microstructure and Post-Weld Heat Treatment on Microstructure and Mechanical Properties of Linear Friction Welded Ti-6Al-4V Joint. Advanced Engineering Materials, 2012, 14, 312-318.	1.6	19
201	Characterisation of cold sprayed Al5056/SiC coating: effect of SiC particle size. Surface Engineering, 2016, 32, 641-649.	1.1	19
202	Microstructural evolution and mechanical properties of electron beam welded dissimilar titanium alloy joints. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 697, 224-232.	2.6	19
203	Microstructure and anti-wear and corrosion performances of novel UHMWPE/graphene nanosheet composite coatings deposited by flame spraying. Polymers for Advanced Technologies, 2013, 24, 888-894.	1.6	18
204	Effects of SiC Volume Fraction and Particle Size on the Deposition Behavior and Mechanical Properties of Cold-Sprayed AZ91D/SiCp Composite Coatings. Journal of Thermal Spray Technology, 2014, 23, 91-97.	1.6	18
205	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
206	Detailed characterizations of microstructure evolution, corrosion behavior and mechanical properties of refill friction stir spot welded 2219 aluminum alloy. Materials Characterization, 2022, 183, 111594.	1.9	18
207	Numerical Study on the Effect of Substrate Size on the Supersonic Jet Flow and Temperature Distribution Within the Substrate in Cold Spraying. Journal of Thermal Spray Technology, 2012, 21, 628-635.	1.6	17
208	Effect of Tool Rotation Speed on Microstructure and Microhardness of Friction-Stir-Processed Cold-Sprayed SiCp/Al5056 Composite Coating. Journal of Thermal Spray Technology, 2016, 25, 1357-1364.	1.6	17
209	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
210	Crescent-Shaped Electron Distributions at the Nonreconnecting Magnetopause: Magnetospheric Multiscale Observations. Geophysical Research Letters, 2019, 46, 3024-3032.	1.5	17
211	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 10048-10062.	0.8	17
212	Effect of active heating and cooling on microstructure and mechanical properties of friction stir-welded dissimilar aluminium alloy and titanium butt joints. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 365-378.	1.3	17
213	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. Journal of Manufacturing Processes, 2020, 58, 1182-1188.	2.8	17
214	Strengthening mechanism and metal/ceramic bonding interface of cold sprayed TiN/Al5356 deposits. Surface Engineering, 2016, 32, 663-669.	1.1	16
215	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
216	Adaptive and Dynamic Service Composition Using Q-Learning. , 2010, , .		15

#	ARTICLE	IF	CITATIONS
217	Na <sup>+</sup> /K <sup>+</sup> -ATPase inhibition upregulates NMDA-evoked currents in rat hippocampal CA1 pyramidal neurons. <i>Fundamental and Clinical Pharmacology</i> , 2012, 26, 503-512.	1.0	15
218	Thymic carcinoma patients with myasthenia gravis exhibit better prognoses. <i>International Journal of Clinical Oncology</i> , 2016, 21, 75-80.	1.0	15
219	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
220	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
221	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
222	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
223	Investigation of Impact Behavior of Cold-Sprayed Large Annealed Copper Particles and Characterization of Coatings. <i>Journal of Thermal Spray Technology</i> , 2011, 20, 252-259.	1.6	14
224	Effect of vacuum heat treatment on tensile strength and fracture performance of cold-sprayed Cu-4Cr-2Nb coatings. <i>Applied Surface Science</i> , 2011, 257, 5972-5976.	3.1	14
225	Effect of preheating on deformation in cold spraying dissimilar combinations. <i>Surface Engineering</i> , 2014, 30, 329-334.	1.1	14
226	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
227	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
228	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
229	Investigation of Deposition Behavior of Cold-Sprayed Magnesium Coating. <i>Journal of Thermal Spray Technology</i> , 2012, 21, 831-837.	1.6	13
230	Numerical Analysis of Effect of Backplate Diffusivity on the Transient Temperature in Friction Stir Welding. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 2446-2450.	1.2	13
231	Observations of Kelvin-Helmholtz Waves in the Earth's Magnetotail Near the Lunar Orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3836-3847.	0.8	13
232	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
233	Microstructure and fatigue properties of linear friction welded TC4 titanium alloy joints. <i>Science and Technology of Welding and Joining</i> , 2017, 22, 177-181.	1.5	12
234	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

#	ARTICLE	IF	CITATIONS
235	Effects of microstructural asymmetries across friction stir welded AA2024 joints on mechanical properties. <i>Science and Technology of Welding and Joining</i> , 2018, 23, 58-62.	1.5	12
236	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
237	Microstructure and Electrical Conductivity of Atmospheric Plasma-Sprayed LSM/YSZ Composite Cathode Materials. <i>Journal of Thermal Spray Technology</i> , 2007, 16, 1005-1010.	1.6	11
238	Impacting Behavior of Large Oxidized Copper Particles in Cold Spraying. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 433-440.	1.6	11
239	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
240	Evolution of grain structure, $\gamma'$ 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
241	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
242	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
243	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
244	Residual Stress, Microstructure and Mechanical Properties in Thick 6005A-T6 Aluminium Alloy Friction Stir Welds. <i>Metals</i> , 2019, 9, 803.	1.0	10
245	Prolonged Kelvin-Helmholtz Waves at Dawn and Dusk Flank Magnetopause: Simultaneous Observations by MMS and THEMIS. <i>Astrophysical Journal</i> , 2019, 875, 57.	1.6	10
246	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
247	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
248	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
249	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
250	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
251	Effect of matrix/reinforcement combination on cold sprayed coating deposition behaviour. <i>Surface Engineering</i> , 2014, 30, 796-800.	1.1	9
252	The effects of forging pressure and temperature field on residual stresses in linear friction welded Ti6Al4V joints. <i>Advances in Manufacturing</i> , 2016, 4, 314-321.	3.2	9

#	ARTICLE	IF	CITATIONS
253	Impact of surface state in probeless friction stir spot welding of an Al-Li alloy. Science and Technology of Welding and Joining, 2019, 24, 200-208.	1.5	9
254	Associations of cigarette smoking with memory decline and neurodegeneration among cognitively normal older individuals. Neuroscience Letters, 2020, 714, 134563.	1.0	9
255	Impact of travel speed on the microstructure and mechanical properties of adjustable-gap bobbin-tool friction stir welded Al-Mg joints. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 710-717.	2.4	9
256	Effect of FSW process on anisotropic of titanium alloy T-joint. Materials and Manufacturing Processes, 2022, 37, 25-33.	2.7	9
257	On the association between microhardness, corrosion resistance and microstructure of probeless friction stir spot welded Al-Li joint. Journal of Materials Research and Technology, 2021, 14, 2394-2405.	2.6	9
258	Improvement for Ti <sub>3</sub> /SiC <sub>2</sub> /Cu joint brazed using composite fillers with abnormal expansion ceramic particulates. Journal of the American Ceramic Society, 2022, 105, 3786-3796.	1.9	9
259	Electrical Properties of Atmospheric Plasma-Sprayed La <sub>10</sub> (SiO <sub>4</sub> ) <sub>6</sub> O <sub>3</sub> Electrolyte Coatings. Journal of Thermal Spray Technology, 2011, 20, 888-891.	1.6	8
260	Building-Up Process of Cold-Sprayed Al <sub>5</sub> O <sub>5</sub> S <sub>2</sub> /In <sub>7</sub> 18 Composite Coating. Journal of Thermal Spray Technology, 2015, 24, 579-586.	1.6	8
261	Thermal Spray Technology. Advances in Materials Science and Engineering, 2019, 2019, 1-2.	1.0	8
262	Microstructures and wear-corrosion performance of vacuum plasma sprayed and cold gas dynamic sprayed Muntz alloy coatings. Surface and Coatings Technology, 2019, 371, 172-184.	2.2	8
263	Assessing the Bonding Interface Characteristics and Mechanical Properties of Bobbin Tool Friction Stir Welded Dissimilar Aluminum Alloy Joints. Acta Metallurgica Sinica (English Letters), 2021, 34, 125-134.	1.5	8
264	Microstructure and Microhardness of Cold-Sprayed CuNiIn Coating. Advanced Engineering Materials, 2008, 10, 746-749.	1.6	7
265	Oxidation Behavior of Three Different Zones of Linear Friction Welded Ti <sub>2</sub> AlNb Alloy. Advanced Engineering Materials, 2016, 18, 1944-1951.	1.6	7
266	Studies of the interfacial structure of a linear friction welded Fe/Ni joint: First principles calculation and TEM validation. Materials Characterization, 2017, 129, 60-66.	1.9	7
267	Metal Matrix Composite Coatings by Cold Spray. , 2018, , 297-318.		7
268	Hot corrosion behavior of three different zones of linear friction welded Ti-22Al-25Nb alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 612-622.	0.8	7
269	Linear friction welding of a beta titanium alloy: experimental investigations on microstructure evolution and mechanical properties. Science and Technology of Welding and Joining, 2020, 25, 625-636.	1.5	7
270	Formability and mechanical property of refill friction stir spot-welded joints. Welding in the World, Le Soudage Dans Le Monde, 2021, 65, 899-907.	1.3	7



#	ARTICLE	IF	CITATIONS
271	Microstructure Analysis of Linear Friction Welded AISI 321 Stainless Steel Joint. <i>Journal of Engineering Science and Technology Review</i> , 2015, 8, 37-39.	0.2	7
272	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
273	Poland Syndrome Associated With Ipsilateral Lipoma and Dextrocardia. <i>Annals of Thoracic Surgery</i> , 2011, 92, 2250-2252.	0.7	6
274	Effect of weld curvature radius and tool rotation direction on joint microstructure in friction stir welding casting alloys. <i>Materials &amp; Design</i> , 2014, 53, 124-128.	5.1	6
275	Constitutive behaviour in as quenched Al-5Cu-0.4Mn alloy during hot deformation. <i>Materials Science and Technology</i> , 2015, 31, 1320-1328.	0.8	6
276	Effect of powder size on the long-term corrosion performance of pure aluminium coatings on mild steel by cold spraying. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 546-551.	0.8	6
277	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
278	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
279	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
280	Lower Hybrid Waves at the Magnetosheath Separatrix Region. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089880.	1.5	6
281	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
282	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
283	Cold Spray Additive Manufacturing of Ti6Al4V: Special Nozzle Design Using Numerical Simulation and Experimental Validation. <i>Coatings</i> , 2022, 12, 210.	1.2	6
284	Effect of vacuum heat treatment on microstructure and microhardness of cold sprayed Cu-4Cr-2Nb alloy coating. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, s203-s208.	1.7	5
285	Effect of rotation speed on temperature field and axial shortening of inertia friction welded GH4169 joints by numerical simulation. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2011, 16, 277-280.	0.5	5
286	Pinless friction stir welding of AA2024-T3 joint and its failure modes. <i>Transactions of Tianjin University</i> , 2014, 20, 439-443.	3.3	5
287	MMS Observations of Multiscale Hall Physics in the Magnetotail. <i>Geophysical Research Letters</i> , 2019, 46, 10230-10239.	1.5	5
288	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

#	ARTICLE	IF	CITATIONS
289	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
290	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
291	Solid State Welding for Fabricating Metallic Parts and Structures. , 2022, , 246-259.		5
292	Fine Structures of the Electron Current Sheet in Magnetotail Guideâ€Field Reconnection. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	5
293	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
294	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
295	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
296	Improvement of tensile strength of cold sprayed Fe deposits via in-process powder preheating. <i>Materials Letters</i> , 2022, 316, 132090.	1.3	4
297	Upset Prediction in Friction Welding Using Radial Basis Function Neural Network. <i>Advances in Materials Science and Engineering</i> , 2013, 2013, 1-9.	1.0	3
298	Advances in Friction Welding. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-1.	1.0	3
299	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
300	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
301	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
302	Effect of the Electric Field on the Gyrotropic Electron Distributions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091437.	1.5	3
303	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
304	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
305	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
306	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

#	ARTICLE	IF	CITATIONS
307	Effects of annealing on microstructure and properties of linear friction welded dissimilar titanium joints. Science and Technology of Welding and Joining, 2014, 19, 689-695.	1.5	1
308	Optimizing the Integrity of Linear Friction Welded Ti2AlNb Alloys. Metals, 2021, 11, 802.	1.0	1
309	Analysis of local microstructure and strengthening mechanisms in adjustable-gap bobbin tool friction stir welds of Al-Mg. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1589-1595.	2.4	0