

Bo Li

List of Publications by Year in descending order

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56
papers

1,380
citations

331670

21
h-index

345221

36
g-index

56
all docs

56
docs citations

56
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissimilar friction stir welding of Ti-6Al-4V alloy and aluminum alloy employing a modified butt joint configuration: Influences of process variables on the weld interfaces and tensile properties. <i>Materials & Design</i> , 2014, 53, 838-848.	5.1	125
2	The study on defects in aluminum 2219-T6 thick butt friction stir welds with the application of multiple non-destructive testing methods. <i>Materials & Design</i> , 2011, 32, 2073-2084.	5.1	116
3	Investigation on dissimilar underwater friction stir lap welding of 6061-T6 aluminum alloy to pure copper. <i>Materials & Design</i> , 2014, 64, 74-80.	5.1	111
4	Additive manufacturing of ultrafine-grained austenitic stainless steel matrix composite via vanadium carbide reinforcement addition and selective laser melting: Formation mechanism and strengthening effect. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 745, 495-508.	5.6	94
5	Selective laser melting of CoCrFeNiMn high entropy alloy powder modified with nano-TiN particles for additive manufacturing and strength enhancement: Process, particle behavior and effects. <i>Powder Technology</i> , 2020, 360, 509-521.	4.2	84
6	Fine-structured CoCrFeNiMn high-entropy alloy matrix composite with 12 wt% TiN particle reinforcements via selective laser melting assisted additive manufacturing. <i>Materials Letters</i> , 2019, 252, 88-91.	2.6	73
7	Numerical simulation and experimental investigation on friction stir welding of 6061-T6 aluminum alloy. <i>Materials & Design</i> , 2014, 60, 94-101.	5.1	72
8	Casting defects induced fatigue damage in aircraft frames of ZL205A aluminum alloy – A failure analysis. <i>Materials & Design</i> , 2011, 32, 2570-2582.	5.1	63
9	Fabrication of TiCp/Ti-6Al-4V surface composite via friction stir processing (FSP): Process optimization, particle dispersion-refinement behavior and hardening mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 574, 75-85.	5.6	60
10	Surface modification of Ti-6Al-4V alloy via friction-stir processing: Microstructure evolution and dry sliding wear performance. <i>Surface and Coatings Technology</i> , 2014, 239, 160-170.	4.8	53
11	Preparation of Ti-Cr and Ti-Cu flame-retardant coatings on Ti-6Al-4V using a high-energy mechanical alloying method: A preliminary research. <i>Materials & Design</i> , 2012, 35, 25-36.	5.1	52
12	Grain refinement and localized amorphization of additively manufactured high-entropy alloy matrix composites reinforced by nano ceramic particles via selective-laser-melting/remelting. <i>Composites Communications</i> , 2020, 19, 56-60.	6.3	49
13	Effects of processing variables and heat treatments on Al/Ti-6Al-4V interface microstructure of bimetal clad-plate fabricated via a novel route employing friction stir lap welding. <i>Journal of Alloys and Compounds</i> , 2016, 658, 904-913.	5.5	47
14	Strain sensing behavior of FDM 3D printed carbon black filled TPU with periodic configurations and flexible substrates. <i>Journal of Manufacturing Processes</i> , 2022, 74, 283-295.	5.9	41
15	The investigation of abnormal particle-coarsening phenomena in friction stir repair weld of 2219-T6 aluminum alloy. <i>Materials & Design</i> , 2011, 32, 3796-3802.	5.1	33
16	Surface aluminizing on Ti-6Al-4V alloy via a novel multi-pass friction-stir lap welding method: Preparation process, oxidation behavior and interlayer evolution. <i>Materials & Design</i> , 2013, 49, 647-656.	5.1	30
17	Surface nitriding on Ti-6Al-4V alloy via friction stir processing method under nitrogen atmosphere. <i>Applied Surface Science</i> , 2013, 274, 356-364.	6.1	30
18	A feasibility research on friction stir welding of a new-typed lap-butt joint of dissimilar Al alloys. <i>Materials & Design</i> , 2012, 34, 725-731.	5.1	26

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19	Fabrication and Evaluation of Ti ₃ Al _p /Ti-6Al-4V Surface Layer via Additive Friction-Stir Processing. <i>Materials and Manufacturing Processes</i> , 2014, 29, 412-417.	4.7	26
20	Additively manufactured Ni-15Fe-5Mo Permalloy via selective laser melting and subsequent annealing for magnetic-shielding structures: Process, micro-structural and soft-magnetic characteristics. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 494, 165754.	2.3	24
21	Plastic deformation mechanism in crystal-glass high entropy alloy composites studied via molecular dynamics simulations. <i>Composites Communications</i> , 2021, 24, 100658.	6.3	22
22	3D Printed Reduced Graphene Oxide/Elastomer Resin Composite with Structural Modulated Sensitivity for Flexible Strain Sensor. <i>Advanced Engineering Materials</i> , 2022, 24, 2101068.	3.5	21
23	Friction-Stir Nitriding of Titanium Alloy Surface Layer. <i>Materials and Manufacturing Processes</i> , 2014, 29, 493-497.	4.7	17
24	Friction-stir welding of titanium/aluminum dissimilar alloys: Joint configuration design, as-welded interface characteristics and tensile properties. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2014, 228, 1469-1480.	2.4	16
25	A dimensionally augmented and physics-informed machine learning for quality prediction of additively manufactured high-entropy alloy. <i>Journal of Materials Processing Technology</i> , 2022, 307, 117637.	6.3	15
26	Improve the quality of 1060Al/Q235 explosive composite plate by friction stir processing. <i>Journal of Materials Research and Technology</i> , 2020, 9, 42-51.	5.8	12
27	General Investigations on Manufacturing Quality of Permalloy via Selective Laser Melting for 3D Printing of Customized Magnetic Shields. <i>Jom</i> , 2020, 72, 2834-2844.	1.9	11
28	Fabrication and anti-oxidation properties of Al/Ti-6Al-4V bimetallic clad-sheet by multi-pass friction stir welding. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 1078-1082.	2.4	7
29	Solid Stress-Distribution-Oriented Design and Topology Optimization of 3D-Printed Heterogeneous Lattice Structures with Light Weight and High Specific Rigidity. <i>Polymers</i> , 2022, 14, 2807.	4.5	7
30	Microstructure feature of friction stir processed ductile cast iron. <i>Materials & Design</i> , 2015, 65, 847-854.	5.1	6
31	Interface repairing for AA5083/T2 copper explosive composite plate by friction stir processing. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 2585-2596.	4.2	6
32	Effects of Multi-Pass Friction Stir Processing on Microstructures and Mechanical Properties of the 1060Al/Q235 Composite Plate. <i>Metals</i> , 2020, 10, 298.	2.3	5
33	Machine-learning prediction of selective laser melting additively manufactured part density by feature-dimension-ascended Bayesian network model for process optimisation. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 121, 4023-4038.	3.0	5
34	Electrohydrodynamic (EHD) inkjet printing flexible pressure sensors with a multilayer structure and periodically patterned Ag nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 18734-18750.	2.2	5
35	Failure analysis of an aluminum alloy material framework component induced by casting defects. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 231, 012097.	0.6	3
36	The Investigation on Strain Strengthening Induced Martensitic Phase Transformation of Austenitic Stainless Steel: A Fundamental Research for the Quality Evaluation of Strain Strengthened Pressure Vessel. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 128, 012005.	0.3	3

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37	Additive manufactured thermal metamaterial devices for manipulating heat flow: geometric configuration design and SLM-assisted fabrication. <i>Engineering Research Express</i> , 2021, 3, 025038.	1.6	3
38	PREPARATION AND OXIDATION BEHAVIOR OF ALU-MINIZED COATING ON TC4 TITANIUM ALLOY VIA FRICTION STIR LAP WELDING METHOD. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2013, 49, 996.	0.3	3
39	Structurally hierarchical flex-sensor of MWCNTs/TPU composite via mesh mould-based selective laser sintering (SLS) and ultrasonic cavitation-enabled treatment (UCT). <i>Materials Letters</i> , 2022, 324, 132764.	2.6	2
40	Hot Deformation Behavior of 2Cr13 Stainless Steel. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 394, 032048.	0.6	1
41	Failure Analysis of Collecting Pipe Head Used in Ammonia Refrigerating System. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 382, 022101.	0.6	1
42	The influence of fire exposure on austenitic stainless steel for pressure vessel fitness-for-service assessment: Experimental research. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
43	Experimental research on mechanical properties of 5083 aluminum alloy for fitness-for-service assessment of cryogenic pressure vessel after fire exposure. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	0
44	The Research of the Fitness-for-Service Assessment on Steels for Pressure Vessel Subjected to Fire Damage: Metallurgical Analysis and the Influence on Performance Degradation. , 2017, , .		0
45	Fitness-for-Service Assessment on Pressure Piping of Grade X70 Pipeline Steel (API Spec.5L) After Exposure to Fire. , 2017, , .		0
46	Mechanical Properties of Friction Stir Processed Al/Ti Composite Plates. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 199, 032099.	0.3	0
47	Mechanical Properties of Al/Steel Composite Plates Fabricated via Friction Stir Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 423, 012126.	0.6	0
48	The Effect of Strain Hardening on Mechanical Properties of S30408 Austenitic Stainless Steel: A Fundamental Research for the Quality Evaluation of Strain Strengthened Pressure Vessel. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 382, 032013.	0.6	0
49	Numerical Simulation and Safety Assessment Analysis for Pressure Pipe with Incomplete Penetration Defects. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 382, 052052.	0.6	0
50	The Influence of Process Parameters in Friction Stir Processed Al/Steel Composite Plates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 439, 042037.	0.6	0
51	Microstructure evolution analysis on creep behavior of Grade 91 steel under multiaxial state of stress. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 233, 022013.	0.3	0
52	Microstructure analysis of elevator brake base. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 233, 032021.	0.3	0
53	Investigation on wear mechanism of elevator brake sluice bar. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 233, 032022.	0.3	0
54	Failure Analysis of An Elevator Brake Plunger. <i>Journal of Physics: Conference Series</i> , 2019, 1213, 052026.	0.4	0

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55	Failure Analysis on Loosing Bar of An Elevator Brake. Journal of Physics: Conference Series, 2019, 1213, 052025.	0.4	0
56	Failure analysis on magnetic ring of an elevator brake. IOP Conference Series: Earth and Environmental Science, 2019, 242, 032043.	0.3	0