

Rajiv S. Mishra

List of Publications by Year in descending order

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535
papers

29,672
citations

9234

74
h-index

7931

149
g-index

603
all docs

603
docs citations

603
times ranked

11107
citing authors

#	ARTICLE	IF	CITATIONS
1	Friction stir welding and processing. <i>Materials Science and Engineering Reports</i> , 2005, 50, 1-78.	14.8	5,241
2	Friction stir processing: a novel technique for fabrication of surface composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 341, 307-310.	2.6	904
3	Microstructural investigation of friction stir welded 7050-T651 aluminium. <i>Acta Materialia</i> , 2003, 51, 713-729.	3.8	894
4	High strain rate superplasticity in a friction stir processed 7075 Al alloy. <i>Scripta Materialia</i> , 1999, 42, 163-168.	2.6	734
5	Additive manufacturing of metals: a brief review of the characteristic microstructures and properties of steels, Ti-6Al-4V and high-entropy alloys. <i>Science and Technology of Advanced Materials</i> , 2017, 18, 584-610.	2.8	660
6	Low-temperature superplasticity in nanostructured nickel and metal alloys. <i>Nature</i> , 1999, 398, 684-686.	13.7	589
7	Superplastic deformation behaviour of friction stir processed 7075Al alloy. <i>Acta Materialia</i> , 2002, 50, 4419-4430.	3.8	387
8	Effects of grain size on the corrosion resistance of wrought magnesium alloys containing neodymium. <i>Corrosion Science</i> , 2012, 58, 145-151.	3.0	380
9	Influence of grain size and texture on Hallâ€Petch relationship for a magnesium alloy. <i>Scripta Materialia</i> , 2011, 65, 994-997.	2.6	343
10	Structureâ€property correlations in Al 7050 and Al 7055 high-strength aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 478, 163-172.	2.6	324
11	Superplasticity in powder metallurgy aluminum alloys and composites. <i>Acta Metallurgica Et Materialia</i> , 1995, 43, 877-891.	1.9	252
12	Friction stir processing: a tool to homogenize nanocomposite aluminum alloys. <i>Scripta Materialia</i> , 2001, 44, 61-66.	2.6	239
13	Steady state creep behaviour of silicon carbide particulate reinforced aluminium composites. <i>Acta Metallurgica Et Materialia</i> , 1992, 40, 2045-2052.	1.9	236
14	Friction Stir Processing: A New Grain Refinement Technique to Achieve High Strain Rate Superplasticity in Commercial Alloys. <i>Materials Science Forum</i> , 2001, 357-359, 507-514.	0.3	235
15	High strain-rate compressive deformation behavior of the Al _{0.1} CrFeCoNi high entropy alloy. <i>Materials and Design</i> , 2015, 86, 598-602.	3.3	223
16	High strain rate superplasticity in a commercial 2024 Al alloy via friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 359, 290-296.	2.6	220
17	Friction stir additive manufacturing for high structural performance through microstructural control in an Mg based WE43 alloy. <i>Materials & Design</i> , 2015, 65, 934-952.	5.1	200
18	Extreme creep resistance in a microstructurally stable nanocrystalline alloy. <i>Nature</i> , 2016, 537, 378-381.	13.7	199

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19	Effect of friction stir processing on fatigue behavior of A356 alloy. <i>Scripta Materialia</i> , 2004, 51, 237-241.	2.6	198
20	Strengthening mechanisms in Ti-Nb-Zr-Ta and Ti-Mo-Zr-Fe orthopaedic alloys. <i>Biomaterials</i> , 2004, 25, 3413-3419.	5.7	193
21	Microstructural modification of as-cast Al-Si-Mg alloy by friction stir processing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 3323-3336.	1.1	181
22	Effect of friction stir processing on the microstructure of cast A356 aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006, 433, 269-278.	2.6	180
23	Low temperature superplasticity in a friction-stir-processed ultrafine grained Al-Zn-Mg-Sc alloy. <i>Acta Materialia</i> , 2005, 53, 4211-4223.	3.8	171
24	Modifying transformation pathways in high entropy alloys or complex concentrated alloys via thermo-mechanical processing. <i>Acta Materialia</i> , 2018, 153, 169-185.	3.8	169
25	Effect of multiple-pass friction stir processing on microstructure and tensile properties of a cast aluminum-silicon alloy. <i>Scripta Materialia</i> , 2006, 54, 1623-1626.	2.6	163
26	Enhancing strength and strain hardenability via deformation twinning in fcc-based high entropy alloys reinforced with intermetallic compounds. <i>Acta Materialia</i> , 2019, 165, 420-430.	3.8	155
27	Abnormal grain growth in friction stir processed alloys. <i>Scripta Materialia</i> , 2008, 58, 367-371.	2.6	148
28	Corrosion-resistant high entropy alloy with high strength and ductility. <i>Scripta Materialia</i> , 2019, 166, 168-172.	2.6	148
29	Mechanical behavior and superplasticity of a severe plastic deformation processed nanocrystalline Ti-6Al-4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 298, 44-50.	2.6	143
30	Corrosion behavior of a friction stir processed rare-earth added magnesium alloy. <i>Corrosion Science</i> , 2012, 58, 321-326.	3.0	143
31	Multiple passes of friction stir processing for the creation of superplastic 7075 aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 464, 255-260.	2.6	139
32	Tensile yield strength of a single bulk Al _{0.3} CoCrFeNi high entropy alloy can be tuned from 160 MPa to 1800 MPa. <i>Scripta Materialia</i> , 2019, 162, 18-23.	2.6	138
33	Superplastic deformation mechanism of an ultrafine-grained aluminum alloy produced by friction stir processing. <i>Acta Materialia</i> , 2010, 58, 4693-4704.	3.8	135
34	Effect of tool design and process parameters on properties of Al alloy 6016 friction stir spot welds. <i>Journal of Materials Processing Technology</i> , 2011, 211, 972-977.	3.1	133
35	Superplasticity in cast A356 induced via friction stir processing. <i>Scripta Materialia</i> , 2004, 50, 931-935.	2.6	131
36	Enhanced strength and ductility in a friction stir processing engineered dual phase high entropy alloy. <i>Scientific Reports</i> , 2017, 7, 16167.	1.6	127

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37	Influence of fraction of high angle boundaries on the mechanical behavior of an ultrafine grained Al-Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 5246-5254.	2.6	126
38	High strain rate superplasticity in friction stir processed Al-Mg-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 351, 148-153.	2.6	124
39	Effect of texture on the mechanical behavior of ultrafine grained magnesium alloy. <i>Scripta Materialia</i> , 2011, 64, 580-583.	2.6	119
40	Understanding effect of 3.5 wt.% NaCl on the corrosion of Al _{0.1} CoCrFeNi high-entropy alloy. <i>Journal of Nuclear Materials</i> , 2017, 495, 154-163.	1.3	117
41	High-Pressure Sintering of Nanocrystalline gamma-Al ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 1996, 79, 2989-2992.	1.9	115
42	Development of ultrafine-grained microstructure and low temperature (0.48 T _m) superplasticity in friction stir processed Al-Mg-Zr. <i>Scripta Materialia</i> , 2005, 53, 75-80.	2.6	111
43	Grain size and texture effects on deformation behavior of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 716-724.	2.6	111
44	A State-of-the-Art Review on Solid-State Metal Joining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	1.3	111
45	Multi-sheet structures in 7475 aluminum by friction stir welding in concert with post-weld superplastic forming. <i>Scripta Materialia</i> , 2002, 47, 631-636.	2.6	108
46	Properties of friction stir-processed Al 1100-NiTi composite. <i>Scripta Materialia</i> , 2007, 56, 541-544.	2.6	107
47	Effect of Microstructure on the Deformation Mechanism of Friction Stir-Processed Al _{<sub>0.1</sub>} CoCrFeNi High Entropy Alloy. <i>Materials Research Letters</i> , 2015, 3, 30-34.	4.1	104
48	Analysis of microstructural evolution during friction stir welding of ultrahigh-strength steel. <i>Scripta Materialia</i> , 2010, 63, 851-854.	2.6	103
49	Friction Stir Additive Manufacturing: Route to High Structural Performance. <i>Jom</i> , 2015, 67, 616-621.	0.9	103
50	Hierarchical features infused heterogeneous grain structure for extraordinary strength-ductility synergy. <i>Materials Research Letters</i> , 2018, 6, 676-682.	4.1	103
51	Hierarchical microstructure for improved fatigue properties in a eutectic high entropy alloy. <i>Scripta Materialia</i> , 2018, 156, 105-109.	2.6	103
52	Fatigue behavior of ultrafine grained triplex Al _{0.3} CoCrFeNi high entropy alloy. <i>Scripta Materialia</i> , 2019, 158, 116-120.	2.6	101
53	Some observations on the high-temperature creep behavior of 6061 Al-SiC composites. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990, 21, 2089-2090.	1.4	100
54	Mechanism of high strain rate superplasticity in aluminium alloy composites. <i>Acta Materialia</i> , 1997, 45, 561-568.	3.8	98

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55	High-strain-rate superplasticity from nanocrystalline Al alloy 1420 at low temperatures. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2001, 81, 37-48.	0.8	97
56	Contrasting mechanical behavior in precipitation hardenable Al _x CoCrFeNi high entropy alloy microstructures: Single phase FCC vs. dual phase FCC-BCC. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 158-166.	2.6	97
57	Extremely high strength and work hardening ability in a metastable high entropy alloy. Scientific Reports, 2018, 8, 9920.	1.6	96
58	Additive friction stir deposition: a deformation processing route to metal additive manufacturing. Materials Research Letters, 2021, 9, 71-83.	4.1	96
59	High strain rate superplasticity in continuous cast Al-Mg alloys prepared via friction stir processing. Scripta Materialia, 2009, 60, 850-853.	2.6	95
60	A Combinatorial Approach for Assessing the Magnetic Properties of High Entropy Alloys: Role of Cr in Al _{1-x} Co _x Cr _{1-x} FeNi. Advanced Engineering Materials, 2017, 19, 1700048.	1.6	95
61	Tensile superplasticity in a nanocrystalline nickel aluminide. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 252, 174-178.	2.6	93
62	Hall-Petch and inverse Hall-Petch relations in high-entropy CoNiFeAl _x Cu _{1-x} alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138873.	2.6	93
63	Additivity of strengthening mechanisms in ultrafine grained Al-Mg-Sc alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 580, 175-183.	2.6	92
64	High-temperature creep behavior of TiC particulate reinforced Ti-6Al-4V alloy composite. Acta Materialia, 2002, 50, 4293-4302.	3.8	90
65	Tool wear mechanisms in friction stir welding of Ti-6Al-4V alloy. Wear, 2014, 321, 25-32.	1.5	89
66	Friction Stir Processing of a High Entropy Alloy Al _{0.1} CoCrFeNi. Jom, 2015, 67, 1007-1013.	0.9	89
67	Development of nanocrystalline structure in Cu during friction stir processing (FSP). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 5458-5464.	2.6	85
68	Effect of friction stir processing on fatigue behavior of an investment cast Al-7Si-0.6 Mg alloy. Acta Materialia, 2010, 58, 989-1003.	3.8	84
69	A conceptual model for the process variables related to heat generation in friction stir welding of aluminum. Scripta Materialia, 2008, 58, 327-331.	2.6	83
70	Anomalies in the deformation mechanism and kinetics of coarse-grained high entropy alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 654, 256-263.	2.6	83
71	Reciprocating sliding wear behavior of high entropy alloys in dry and marine environments. Materials Chemistry and Physics, 2018, 210, 162-169.	2.0	82
72	Steady state creep behaviour of particulate-reinforced titanium matrix composites. Acta Materialia, 1996, 44, 927-935.	3.8	81

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73	Microstructure and mechanical behavior of friction stir processed ultrafine grained Al–Mg–Sc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 5883-5887.	2.6	81
74	High strain rate superplasticity in friction stir processed ultrafine grained Mg–Al–Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 69-76.	2.6	80
75	Design approaches for printability-performance synergy in Al alloys for laser-powder bed additive manufacturing. <i>Materials and Design</i> , 2021, 204, 109640.	3.3	80
76	Material flow and microstructural evolution during friction stir spot welding of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 543, 200-209.	2.6	78
77	Spatially dependent properties in a laser additive manufactured Ti–Al–4V component. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 654, 39-52.	2.6	78
78	Effect of microstructure on fatigue life and fracture morphology in an aluminum alloy. <i>Scripta Materialia</i> , 2009, 60, 500-503.	2.6	77
79	Evaluation of microstructure and superplasticity in friction stir processed 5083 Al alloy. <i>Journal of Materials Research</i> , 2004, 19, 3329-3342.	1.2	76
80	High entropy alloys – Tunability of deformation mechanisms through integration of compositional and microstructural domains. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141085.	2.6	75
81	Dimensionally Induced Structural transformations in Titanium-Aluminum Multilayers. <i>Physical Review Letters</i> , 1996, 76, 3778-3781.	2.9	73
82	Effect of Friction Stir Processing on Microstructure and Mechanical Properties of a Cast-Magnesium–Rare Earth Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 73-84.	1.1	73
83	A study on the combined effect of forging and aging in Mg–Y–RE alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 28-35.	2.6	72
84	Microstructure and mechanical properties of a friction stir processed Ti–Al–4V alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 573, 67-74.	2.6	72
85	Reversed strength-ductility relationship in microstructurally flexible high entropy alloy. <i>Scripta Materialia</i> , 2018, 154, 163-167.	2.6	72
86	Oxide dispersion strengthened nickel based alloys via spark plasma sintering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 630, 155-169.	2.6	71
87	Aging kinetics of friction stir welded Al-Cu-Li-Mg-Ag and Al-Cu-Li-Mg alloys. <i>Materials and Design</i> , 2016, 110, 60-71.	3.3	71
88	Cavitation in superplastic 7075Al alloys prepared via friction stir processing. <i>Acta Materialia</i> , 2003, 51, 3551-3569.	3.8	70
89	Superplastic behavior of micro-regions in two-pass friction stir processed 7075Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 505, 70-78.	2.6	70
90	Friction stir lap welded advanced high strength steels: Microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 8111-8119.	2.6	70

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91	Lattice strain framework for plastic deformation in complex concentrated alloys including high entropy alloys. <i>Materials Science and Technology</i> , 2015, 31, 1259-1263.	0.8	70
92	Evaluation of intermetallic compound layer at aluminum/steel interface joined by friction stir scribe technology. <i>Materials and Design</i> , 2019, 174, 107795.	3.3	70
93	A State-of-the-Art Review on Solid-State Metal Joining. , 2018, , .		69
94	Title is missing!. <i>Plant Cell, Tissue and Organ Culture</i> , 2003, 73, 21-35.	1.2	67
95	Microstructural Modification of Cast Aluminum Alloys via Friction Stir Processing. <i>Materials Science Forum</i> , 2003, 426-432, 2891-2896.	0.3	67
96	Survivability of single-walled carbon nanotubes during friction stir processing. <i>Nanotechnology</i> , 2006, 17, 3081-3084.	1.3	67
97	Friction stir welding of Al-Mg-Li 1424 alloy. <i>Materials and Design</i> , 2016, 106, 146-152.	3.3	67
98	Segregation engineering of grain boundaries of a metastable Fe-Mn-Co-Cr-Si high entropy alloy with laser-powder bed fusion additive manufacturing. <i>Acta Materialia</i> , 2021, 219, 117271.	3.8	67
99	Plasma activated sintering of nanocrystalline α -Al ₂ O ₃ . <i>Scripta Materialia</i> , 1995, 5, 525-544.	0.5	66
100	Upper critical field in nanostructured Nb: Competing effects of the reduction in density of states and the mean free path. <i>Physical Review B</i> , 2006, 74, .	1.1	66
101	Study of friction stir joining of thin aluminium sheets in lap joint configuration. <i>Science and Technology of Welding and Joining</i> , 2010, 15, 70-75.	1.5	66
102	Ultrathin alumina-coated carbon nanotubes as an anode for high capacity Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 13621.	6.7	64
103	Simultaneous enhancement of strength and ductility in an AlCoCrFeNi _{2.1} eutectic high-entropy alloy via friction stir processing. <i>Journal of Alloys and Compounds</i> , 2018, 766, 312-317.	2.8	63
104	Influence of Texture on Mechanical Behavior of Friction-Stir-Processed Magnesium Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010, 41, 13-17.	1.1	61
105	Extremely high fatigue resistance in an ultrafine grained high entropy alloy. <i>Applied Materials Today</i> , 2019, 15, 525-530.	2.3	61
106	Creep behaviour of an aluminium-silicon carbide particulate composite. <i>Scripta Metallurgica Et Materialia</i> , 1990, 24, 1565-1570.	1.0	60
107	Strength and ductility optimization of Mg-Y-Nd-Zr alloy by microstructural design. <i>International Journal of Plasticity</i> , 2015, 68, 77-97.	4.1	60
108	Observations of low-temperature superplasticity in electrodeposited ultrafine grained nickel. <i>Materials Letters</i> , 2000, 45, 345-349.	1.3	59

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109	Characterization of high cycle fatigue behavior of a new generation aluminum lithium alloy. <i>Acta Materialia</i> , 2011, 59, 5946-5960.	3.8	59
110	Influence of ordered L12 precipitation on strain-rate dependent mechanical behavior in a eutectic high entropy alloy. <i>Scientific Reports</i> , 2019, 9, 6371.	1.6	59
111	High density of strong yet deformable intermetallic nanorods leads to an excellent room temperature strength-ductility combination in a high entropy alloy. <i>Acta Materialia</i> , 2021, 219, 117234.	3.8	59
112	Effect of friction stir processing on the kinetics of superplastic deformation in an Al-Mg-Zr alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005, 36, 1447-1458.	1.1	57
113	Critical grain size for change in deformation behavior in ultrafine grained Al-Mg-Sc alloy. <i>Scripta Materialia</i> , 2011, 64, 576-579.	2.6	57
114	Friction stir-based additive manufacturing. <i>Science and Technology of Welding and Joining</i> , 2022, 27, 141-165.	1.5	57
115	Electric pulse assisted rapid consolidation of ultrafine grained alumina matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 287, 178-182.	2.6	55
116	Enhanced superplasticity through friction stir processing in continuous cast AA5083 aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 464, 351-357.	2.6	55
117	Synthesis and characterization of self-organized multilayered graphene-carbon nanotube hybrid films. <i>Journal of Materials Chemistry</i> , 2011, 21, 7289.	6.7	55
118	Stress corrosion cracking susceptibility of ultrafine grained Al-Mg-Sc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 565, 80-89.	2.6	55
119	Effect of microstructure on the uniaxial tensile deformation behavior of Mg-4Y-3RE alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 590, 116-131.	2.6	55
120	High-entropy alloy strengthened by in situ formation of entropy-stabilized nano-dispersoids. <i>Scientific Reports</i> , 2018, 8, 14085.	1.6	55
121	Laser additive manufacturing of compositionally graded AlCrFeMoVx ($x=0$ to 1) high-entropy alloy system. <i>Optics and Laser Technology</i> , 2019, 113, 330-337.	2.2	55
122	TEM/HREM observations of nanostructured superplastic Ni ₃ Al. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 2001, 81, 25-36.	0.8	54
123	Process forces during friction stir channeling in an aluminum alloy. <i>Journal of Materials Processing Technology</i> , 2011, 211, 305-311.	3.1	54
124	Metastability-assisted fatigue behavior in a friction stir processed dual-phase high entropy alloy. <i>Materials Research Letters</i> , 2018, 6, 613-619.	4.1	54
125	Influence of Friction Stir Processing on Weld Temperature Distribution and Mechanical Properties of TiG-Welded Joint of AA6061 and AA7075. <i>Transactions of the Indian Institute of Metals</i> , 2020, 73, 1773-1788.	0.7	54
126	Effect of process parameters on abnormal grain growth during friction stir processing of a cast Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 189-199.	2.6	53

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127	Microstructure and wear resistance of an intermetallic-based Al _{0.25} Ti _{0.75} CoCrFeNi high entropy alloy. <i>Materials Chemistry and Physics</i> , 2018, 210, 197-206.	2.0	53
128	Influence of initial crystal structure and electrical pulsing on densification of nanocrystalline alumina powder. <i>Journal of Materials Research</i> , 1998, 13, 86-89.	1.2	52
129	Strengthening of Al _{0.3} CoCrFeMnNi-based ODS high entropy alloys with incremental changes in the concentration of Y ₂ O ₃ . <i>Scripta Materialia</i> , 2019, 162, 477-481.	2.6	52
130	Influence of friction stir processing on the room temperature fatigue cracking mechanisms of A356 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 716, 165-178.	2.6	51
131	Unexpected strength–ductility response in an annealed, metastable, high-entropy alloy. <i>Applied Materials Today</i> , 2018, 13, 198-206.	2.3	50
132	Microstructure and mechanical behavior of an additive manufactured (AM) WE43-Mg alloy. <i>Additive Manufacturing</i> , 2019, 26, 53-64.	1.7	50
133	High-temperature creep of Al–TiB ₂ particulate composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1994, 189, 95-104.	2.6	49
134	Grain size dependence of strain rate sensitivity in a single phase FCC high entropy alloy Al _{0.3} CoCrFeNi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 344-348.	2.6	49
135	Towards heterogeneous Al _x CoCrFeNi high entropy alloy via friction stir processing. <i>Materials Letters</i> , 2019, 236, 472-475.	1.3	48
136	Process-Dependent Composition, Microstructure, and Printability of Al-Zn-Mg and Al-Zn-Mg-Sc-Zr Alloys Manufactured by Laser Powder Bed Fusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3215-3227.	1.1	48
137	Microstructure and steady state creep in Ti-24Al-11Nb. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1990, 130, 151-164.	2.6	47
138	Fatigue crack growth behavior of friction stir processed aluminum alloy. <i>Scripta Materialia</i> , 2008, 59, 395-398.	2.6	47
139	Influence of friction stir processing tool design on microstructure and superplastic behavior of Al-Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 670, 9-16.	2.6	47
140	Effect of friction stir processing on mechanical properties and heat transfer of TIG welded joint of AA6061 and AA7075. <i>Defence Technology</i> , 2021, 17, 715-727.	2.1	47
141	On superplasticity in silicon carbide reinforced aluminum composites. <i>Scripta Metallurgica Et Materialia</i> , 1991, 25, 271-275.	1.0	46
142	Creep behaviour of an orthorhombic phase in a Ti–Al–Nb alloy. <i>Scripta Metallurgica Et Materialia</i> , 1993, 28, 569-574.	1.0	46
143	Enhanced superplastic properties in bulk metastable nanostructured alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 304-306, 206-210.	2.6	46
144	Microstructure and mechanical properties of friction stir welded oxide dispersion strengthened alloy. <i>Journal of Nuclear Materials</i> , 2013, 432, 274-280.	1.3	46

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145	Microstructures with extraordinary dynamic work hardening and strain rate sensitivity in Al _{0.3} CoCrFeNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 734, 42-50.	2.6	46
146	Enhanced tensile yield strength in laser additively manufactured Al _{0.3} CoCrFeNi high entropy alloy. <i>Materialia</i> , 2020, 9, 100522.	1.3	46
147	Microstructural Modification and Resultant Properties of Friction Stir Processed Cast NiAl Bronze. <i>Materials Science Forum</i> , 2003, 426-432, 2843-2848.	0.3	45
148	In Situ Laser Synthesis of Fe-Based Amorphous Matrix Composite Coating on Structural Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4957-4966.	1.1	45
149	Chemical-Affinity Disparity and Exclusivity Drive Atomic Segregation, Short-Range Ordering, and Cluster Formation in High-Entropy Alloys. <i>Acta Materialia</i> , 2021, 206, 116638.	3.8	45
150	The threshold stress for creep controlled by dislocation-particle interaction. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1994, 69, 1097-1109.	0.8	44
151	Influence of process parameters on microstructural evolution and mechanical properties in friction stirred Al-2024 (T3) alloy. <i>Science and Technology of Welding and Joining</i> , 2009, 14, 346-355.	1.5	44
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