

Roohollah Jamaati

List of Publications by Year in descending order

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140
papers

4,105
citations

101543

36
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149698

56
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141
all docs

141
docs citations

141
times ranked

1460
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing of high-strength aluminum/alumina composite by accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4146-4151.	5.6	206
2	Investigation of the parameters of the cold roll bonding (CRB) process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2320-2326.	5.6	141
3	High-strength and highly-uniform composite produced by anodizing and accumulative roll bonding processes. <i>Materials & Design</i> , 2010, 31, 4816-4822.	5.1	136
4	Cold roll bonding bond strengths: Review. <i>Materials Science and Technology</i> , 2011, 27, 1101-1108.	1.6	134
5	Investigation of nanostructured Al/Al ₂ O ₃ composite produced by accumulative roll bonding process. <i>Materials & Design</i> , 2012, 35, 37-42.	5.1	125
6	Effect of particle size on microstructure and mechanical properties of composites produced by ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2143-2148.	5.6	123
7	Application of ARB process for manufacturing high-strength, finely dispersed and highly uniform Cu/Al ₂ O ₃ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7430-7435.	5.6	119
8	Microstructure and texture evolution of friction stir welded dissimilar aluminum alloys: AA2024 and AA6061. <i>Journal of Manufacturing Processes</i> , 2018, 32, 1-10.	5.9	108
9	On the use of accumulative roll bonding process to develop nanostructured aluminum alloy 5083. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 561, 145-151.	5.6	93
10	Effect of friction, annealing conditions and hardness on the bond strength of Al/Al strips produced by cold roll bonding process. <i>Materials & Design</i> , 2010, 31, 4508-4513.	5.1	92
11	Wear behavior of nanostructured Al/Al ₂ O ₃ composite fabricated via accumulative roll bonding (ARB) process. <i>Materials & Design</i> , 2014, 59, 540-549.	5.1	72
12	An alternative method of processing MMCs by CAR process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 2720-2724.	5.6	70
13	The Role of Surface Preparation Parameters on Cold Roll Bonding of Aluminum Strips. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 191-197.	2.5	70
14	Effect of stacking fault energy on deformation texture development of nanostructured materials produced by the ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 598, 263-276.	5.6	68
15	Investigation of nanostructured aluminum/copper composite produced by accumulative roll bonding and folding process. <i>Materials & Design</i> , 2013, 51, 274-279.	5.1	66
16	Effect of ARB process on textural evolution of AA1100 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 7068-7073.	5.6	63
17	Significant improvement of semi-solid microstructure and mechanical properties of A356 alloy by ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 2495-2501.	5.6	63
18	Application of anodizing and CAR processes for manufacturing Al/Al ₂ O ₃ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 3857-3863.	5.6	60

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19	Effect of β -Mg ₁₇ Al ₁₂ phase on microstructure, texture and mechanical properties of AZ91 alloy processed by asymmetric hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 738, 81-89.	5.6	57
20	Effect of Al ₂ O ₃ nano-particles on the bond strength in CRB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4858-4863.	5.6	55
21	Effect of pre and post welding heat treatment in SiC-fortified dissimilar AA6061-AA2024 FSW butt joint. <i>Journal of Manufacturing Processes</i> , 2017, 30, 97-105.	5.9	55
22	Using ARB process as a solution for dilemma of Si and SiCp distribution in cast Al-Si/SiCp composites. <i>Journal of Materials Processing Technology</i> , 2011, 211, 1159-1165.	6.3	54
23	Fabrication and characterization of Al/SiCp composites by CAR process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 4462-4467.	5.6	52
24	Effect of SiC nanoparticles on the microstructure and texture of friction stir welded AA2024/AA6061. <i>Materials Characterization</i> , 2019, 152, 169-179.	4.4	47
25	Effect of stacking fault energy on mechanical properties of nanostructured FCC materials processed by the ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 443-450.	5.6	45
26	Texture development in Al/Al ₂ O ₃ MMCs produced by anodizing and ARB processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3573-3580.	5.6	44
27	Nano/Ultrafine Structured AA1100 by ARB Process. <i>Materials and Manufacturing Processes</i> , 2011, 26, 1352-1356.	4.7	43
28	Effect of SiC nanoparticles on the mechanical properties of steel-based nanocomposite produced by accumulative roll bonding process. <i>Materials & Design</i> , 2014, 54, 168-173.	5.1	42
29	Asymmetric cross rolling (ACR): A novel technique for enhancement of Goss/Brass texture ratio in Al-Cu-Mg alloy. <i>Materials Characterization</i> , 2018, 142, 352-364.	4.4	42
30	CAR process: A technique for significant enhancement of as-cast MMC properties. <i>Materials Characterization</i> , 2011, 62, 1228-1234.	4.4	41
31	Textural evolution of nanostructured AA5083 produced by ARB. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 556, 351-357.	5.6	41
32	Comparison of microparticles and nanoparticles effects on the microstructure and mechanical properties of steel-based composite and nanocomposite fabricated via accumulative roll bonding process. <i>Materials & Design</i> , 2014, 56, 359-367.	5.1	41
33	Achieving superior strength and high ductility in AISI 304 austenitic stainless steel via asymmetric cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 767, 138433.	5.6	41
34	Comparison of the Microstructure and Mechanical Properties of As-Cast A356/SiC MMC Processed by ARB and CAR Methods. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 1249-1253.	2.5	40
35	The influence of TiO ₂ nano-particles on bond strength of cold roll bonded aluminum strips. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 550, 367-374.	5.6	39
36	Asymmetric cold rolling of AA7075 alloy: The evolution of microstructure, crystallographic texture, and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 824, 141801.	5.6	39

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37	Effect of stacking fault energy on nanostructure formation under accumulative roll bonding (ARB) process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 578, 191-196.	5.6	38
38	Manufacturing of High-Performance Al356/SiCpComposite by CAR Process. <i>Materials and Manufacturing Processes</i> , 2011, 26, 902-907.	4.7	37
39	Modeling and experimental investigation on friction surfacing of aluminum alloys. <i>Journal of Alloys and Compounds</i> , 2019, 805, 57-68.	5.5	37
40	Effect of ECAP on microstructure and tensile properties of A390 aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 931-940.	4.2	35
41	Effect of alloy composition, stacking fault energy, second phase particles, initial thickness, and measurement position on deformation texture development of nanostructured FCC materials fabricated via accumulative roll bonding process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 598, 77-97.	5.6	33
42	Microstructure and mechanical properties of Al/SiO ₂ composite produced by CAR process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 275-281.	5.6	32
43	Effects of Ti particles and T6 heat treatment on the microstructure and mechanical properties of A356 alloy fabricated by compocasting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 818, 141443.	5.6	31
44	Effect of traverse and rotational speeds on microstructure, texture, and mechanical properties of friction stir processed AZ91 alloy. <i>Materials Characterization</i> , 2021, 178, 111235.	4.4	31
45	Fabrication of nanoparticle strengthened IF steel via ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 583, 20-24.	5.6	30
46	Fabrication of a 2-layer laminated steel composite by friction stir additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2020, 51, 110-121.	5.9	29
47	Synergistic effects of hybrid (HA+Ag) particles and friction stir processing in the design of a high-strength magnesium matrix bio-nano composite with an appropriate texture for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104983.	3.1	28
48	Strengthening mechanisms in nanostructured interstitial free steel deformed to high strain. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 656-662.	5.6	27
49	Intensifying Goss/Brass texture ratio in AA2024 by asymmetric cold rolling. <i>Materials Letters</i> , 2018, 219, 229-232.	2.6	27
50	Investigation of microstructure, crystallographic texture, and mechanical behavior of magnesium-based nanocomposite fabricated via multi-pass FSP for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 125, 104894.	3.1	27
51	Unexpected Cube texture in cold rolling of copper. <i>Materials Letters</i> , 2017, 202, 111-115.	2.6	26
52	Modeling and experimental study of friction surfacing of AA2024 alloy over AA1050 plates. <i>Materials Research Express</i> , 2019, 6, 0865g2.	1.6	26
53	The study of thermomechanical and microstructural issues in dissimilar FSW of AA6061 wrought and A390 cast alloys. <i>Journal of Manufacturing Processes</i> , 2019, 41, 168-176.	5.9	26
54	Texture Evolution of Nanostructured Aluminum/Copper Composite Produced by the Accumulative Roll Bonding and Folding Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1587-1598.	2.2	25

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55	Nanostructured copper matrix composite with extraordinary strength and high electrical conductivity produced by asymmetric cryorolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 763, 138146.	5.6	25
56	Effect of strain path during cold rolling on the microstructure, texture, and mechanical properties of AA2024 aluminum alloy. <i>Materials Research Express</i> , 2019, 6, 066514.	1.6	24
57	The effect of alumina content on the mechanical properties of hybrid composites fabricated by ARB process. <i>Ceramics International</i> , 2014, 40, 10489-10498.	4.8	23
58	Microstructural evolution of nanostructured steel-based composite fabricated by accumulative roll bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 298-306.	5.6	22
59	A novel technique to form gradient microstructure in AA5052 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 777, 139075.	5.6	22
60	A new 1.2ÅPa-strength plain low carbon steel with high ductility obtained by SRDR of martensite and intercritical annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139584.	5.6	22
61	Hybrid composites produced by anodizing and accumulative roll bonding (ARB) processes. <i>Ceramics International</i> , 2014, 40, 10027-10035.	4.8	21
62	Effect of mechtrode rotational speed on friction surfacing of AA2024 on AA1050 substrate. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 33, 209-221.	4.5	20
63	On the Achievement of Nanostructured Interstitial Free Steel by Four-Layer Accumulative Roll Bonding Process at Room Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4013-4019.	2.2	19
64	Effects of prior ECAP process on the dynamic impact behaviors of hypereutectic Al-Si alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 793, 139902.	5.6	19
65	Effects of Zn powder on alloying during friction surfacing of Al-Mg alloy. <i>Journal of Alloys and Compounds</i> , 2020, 818, 152823.	5.5	18
66	Effect of post-annealing on the microstructure and mechanical properties of nanostructured copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140666.	5.6	18
67	Simultaneous enhancement of strength and ductility in ferrite-martensite steel via increasing the martensite fraction. <i>Materials Chemistry and Physics</i> , 2021, 259, 124204.	4.0	18
68	Effects of Ni on the microstructure, mechanical and tribological properties of AA2024-Al ₃ NiCu composite fabricated by stir casting process. <i>Journal of Alloys and Compounds</i> , 2021, 887, 161433.	5.5	18
69	Effects of pre- and post-friction surfacing heat treatment on microstructure and corrosion behavior of nickel-aluminide reinforced Al-Cu-Mg alloy. <i>Journal of Alloys and Compounds</i> , 2022, 906, 164211.	5.5	18
70	Microstructure and mechanical properties in nano and microscale SiC-included dissimilar friction stir welding of AA6061-AA2024. <i>Materials Science and Technology</i> , 2018, 34, 388-401.	1.6	17
71	Mechanical alloying by friction surfacing process. <i>Materials Letters</i> , 2019, 254, 394-397.	2.6	17
72	Asymmetric cold rolling: A technique for achieving non-basal textures in AZ91 alloy. <i>Materials Letters</i> , 2019, 249, 143-146.	2.6	17

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73	The effect of crystallographic texture as a distinct effective parameter on the biocorrosion performance of Ti6Al4V alloy in PBS solution. <i>Corrosion Science</i> , 2021, 179, 109100.	6.6	17
74	Effects of pre-heat treatment of the consumable rod on the microstructural and mechanical properties of the friction surfaced Al-Cu-Mg alloy over pure aluminum. <i>Surface and Coatings Technology</i> , 2021, 410, 126954.	4.8	17
75	Effect of friction surfacing parameters on microstructure and mechanical properties of solid-solutionized AA2024 aluminium alloy clad on AA1050. <i>Materials Chemistry and Physics</i> , 2021, 269, 124756.	4.0	17
76	Fabrication of Nano/Ultra-Fine Grained IF Steel via SPD Processes: a Review. <i>Transactions of the Indian Institute of Metals</i> , 2014, 67, 787-802.	1.5	16
77	Improvement of strength-ductility balance of SAE 304 stainless steel by asymmetric cross rolling. <i>Materials Chemistry and Physics</i> , 2020, 256, 123668.	4.0	16
78	EBSD study of the microstructure and texture evolution in an Al–Si–Cu alloy processed by route A ECAP. <i>Journal of Alloys and Compounds</i> , 2021, 858, 157651.	5.5	16
79	Effect of hot rolling on microstructure, crystallographic texture, and hardness of AZ31 alloy. <i>Materials Chemistry and Physics</i> , 2021, 273, 125130.	4.0	15
80	Texture Development of ARB-Processed Steel-Based Nanocomposite. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 4436-4445.	2.5	14
81	Comparison of microparticles and nanoparticles effects on deformation texture of steel-based composite and nanocomposite fabricated by the ARB process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 173-187.	5.6	14
82	Annealing texture of nanostructured IF steel. <i>Materials Characterization</i> , 2015, 106, 411-419.	4.4	14
83	High-strength and high-conductivity nanograin copper fabricated by partial homogenization and asymmetric rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138451.	5.6	14
84	Pre-strain assisted low heat-input friction stir processing to achieve ultrafine-grained copper. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 826, 141958.	5.6	14
85	Texture and microstructure evolution of A390 aluminum alloy during ECAP. <i>Materials Research Express</i> , 2019, 6, 076536.	1.6	13
86	Effect of non-isothermal aging on microstructure and mechanical properties of friction surfaced AA5083-15wt%Zn composites. <i>Surface and Coatings Technology</i> , 2020, 384, 125307.	4.8	13
87	Cellular automaton modeling of dynamic recrystallization in Al-Mg alloy coating fabricated using the friction surfacing process. <i>Surface and Coatings Technology</i> , 2021, 407, 126784.	4.8	13
88	Achieving high strength-ductility in pure copper by cold rolling and submerged friction stir processing (SFSP). <i>Journal of Manufacturing Processes</i> , 2021, 67, 496-502.	5.9	13
89	The effect of SiC nanoparticles on deformation texture of ARB-processed steel-based nanocomposite. <i>Materials Characterization</i> , 2014, 93, 150-162.	4.4	12
90	Production of nanograin microstructure in steel nanocomposite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 638, 143-151.	5.6	12

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91	Microstructure and mechanical properties of IF/St52 steel composite produced by friction stir lap welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138775.	5.6	12
92	Microstructural, tribological, and texture analysis of friction surfaced Al-Mg-Cu clad on AA1050 alloy. <i>Surface and Coatings Technology</i> , 2020, 397, 125980.	4.8	12
93	Tribocorrosion behaviour of Al/Al ₂ O ₃ MMC produced by ARB process. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2011, 5, 10-15.	1.4	11
94	Effect of SiC Nanoparticles on Bond Strength of Cold Roll Bonded IF Steel. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3348-3356.	2.5	11
95	A new method to produce dual-phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 803, 140695.	5.6	11
96	Improvement of the strength-ductility-toughness balance in interstitial-free steel by gradient microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 845, 143237.	5.6	11
97	Microstructure and mechanical properties of Al/Al ₂ O ₃ MMC produced by anodising and cold roll bonding. <i>Materials Science and Technology</i> , 2011, 27, 1648-1652.	1.6	10
98	Tribocorrosion Behavior of Aluminum/Alumina Composite Manufactured by Anodizing and ARB Processes. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 1600-1605.	2.5	10
99	Fabrication of MMC Strip by CRB Process. <i>Journal of Materials Engineering and Performance</i> , 2012, 21, 859-864.	2.5	10
100	Fracture of steel nanocomposite made using accumulative roll bonding. <i>Materials Science and Technology</i> , 2014, 30, 1973-1982.	1.6	10
101	Microstructure and mechanical properties of AA6063 aluminum alloy wire fabricated by friction stir back extrusion (FSBE) process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1005-1012.	4.9	10
102	Effect of route BC-ECAP on microstructural evolution and mechanical properties of Al-Cu alloy. <i>Journal of Materials Science</i> , 2021, 56, 3535-3550.	3.7	10
103	Manufacturing of gradient Al/SiC composite wire by friction stir back extrusion. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2021, 35, 735-743.	4.5	10
104	Resistance spot welding of high-strength DP steel and nano/ultrafine-grained IF steel sheets. <i>Materials Chemistry and Physics</i> , 2022, 281, 125909.	4.0	10
105	Effect of tool pin geometry and weld pass number on microstructural, natural aging and mechanical behaviour of SiC-incorporated dissimilar friction-stir-welded aluminium alloys. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2019, 44, 1.	1.3	9
106	Effect of gradient microstructure on the mechanical properties of aluminum alloy. <i>Materials Characterization</i> , 2021, 174, 111023.	4.4	9
107	Water-assisted crystallization of nanoporous tin oxide formed by anodic oxidation on cold sprayed tin coating. <i>Journal of Alloys and Compounds</i> , 2021, 876, 160207.	5.5	9
108	Effect of Electric Current Pulse Type on Springback, Microstructure, Texture, and Mechanical Properties During V-Bending of AA2024 Aluminum Alloy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021, 143, .	2.2	9

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109	Achieving high strength and superior ductility in Al-Si alloy by cold rolling and friction stir processing. <i>Journal of Alloys and Compounds</i> , 2022, 896, 163102.	5.5	9
110	FSBE process: A technique for fabrication of aluminum wire with randomly oriented fine grains. <i>Materials Letters</i> , 2019, 241, 68-71.	2.6	8
111	Investigation of mechanical and microstructural properties of pure copper processed by combined extrusion-equal channel angular pressing (C-Ex-ECAP). <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 2175-2191.	3.0	8
112	Effect of single roll drive cross rolling on the microstructure, crystallographic texture, and mechanical behavior of Al-Zn-Mg-Cu alloy. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	8
113	Nanostructured AA5005/Al ₂ O ₃ composite manufactured by anodising and accumulative roll bonding. <i>Materials Science and Technology</i> , 2018, 34, 1657-1665.	1.6	7
114	An experimental and theoretical investigation of thermo-mechanical issues in friction surfacing of Al-Mg aluminium alloys: material flow and residual stress. <i>Modelling and Simulation in Materials Science and Engineering</i> , 0, , .	2.0	7
115	Effect of copper reinforcement on the microstructure, macrotecture, and wear properties of a friction-surfaced Al-Cu-Mg coating. <i>Surface and Coatings Technology</i> , 2022, 438, 128380.	4.8	7
116	Effect of friction surfacing on the microstructural and wear characteristics of Al-Cu-Mg alloy coating reinforced by nickel aluminide. <i>Intermetallics</i> , 2022, 142, 107440.	3.9	6
117	Annealing texture of nanostructured steel-based composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 639, 604-614.	5.6	5
118	Effect of Particles on Continuous and Discontinuous Recrystallization of Nanostructured Interstitial Free Steel. <i>Jom</i> , 2016, 68, 271-278.	1.9	5
119	Influence of Crystallographic Texture on the Corrosion Product Morphology and Corrosion Rate of AZ31 Plate in Simulated Body Fluid. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3824-3830.	2.5	5
120	Manufacturing of pure copper with extraordinary strength-ductility-conductivity balance by cryorolling and annealing. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022, 37, 623-632.	4.5	5
121	Importance of Individual Evaluation of Crystallographic Texture and Microstructure Effects on Biocompatibility and Corrosion Performance of Ti6Al4V Alloy. <i>Metals and Materials International</i> , 2023, 29, 343-356.	3.4	5
122	Effect of asymmetric cold rolling on the microstructure, texture, and mechanical properties of the AZ91 alloy. <i>Materials Research Express</i> , 2019, 6, 036501.	1.6	4
123	Formation of highly uniform tin oxide nanochannels by electrochemical anodization on cold sprayed tin coatings. <i>Surface and Coatings Technology</i> , 2021, 410, 126978.	4.8	4
124	Influence of Thermomechanical Processing on the Microstructure and Tensile Behavior of Solution-Treated Al-18%Si-4.5%Cu Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4651-4668.	2.5	4
125	Influence of Deformation and Post-Annealing Treatment on the Microstructure and Mechanical Properties of Austenitic Stainless Steel. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 1799.	1.5	4
126	Manufacturing of high-toughness Al-Si alloy by rolling and friction stir processing: Effect of traverse speed. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2022, 37, 19-36.	4.5	4

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127	Influence of Stacking Fault Energy on the Grain Size of FCC Metals Fabricated by Accumulative Roll Bonding Process. <i>Advanced Materials Research</i> , 0, 1064, 131-137.	0.3	3
128	Comparison of Microparticles and Nanoparticles Effects on the Bonding of Roll Bonded IF Steel. <i>Transactions of the Indian Institute of Metals</i> , 2014, 67, 659-665.	1.5	3
129	Annealing Texture of Nanostructured Steel-Based Nanocomposite. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3201-3208.	2.5	3
130	In Vitro Corrosion Anisotropy Assessment of Ti6Al4V Bimodal Microstructure due to Crystallographic Texture. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 2859-2872.	2.2	3
131	Textural Evaluation of Al-Si-Cu Alloy Processed by Route BC-ECAP. <i>Metals and Materials International</i> , 2021, 27, 2756-2772.	3.4	3
132	Effect of Temperature and Strain on the Microstructure and Mechanical Properties of AA6061/AZ31 Laminated Composite Produced by Hot Forge Bonding. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 293-306.	1.5	3
133	Development and Characterization of in-situ AA2024-Al3NiCu Composites. <i>International Journal of Metalcasting</i> , 2023, 17, 109-123.	1.9	3
134	Effect of friction surfacing parameters on the microstructural, mechanical properties, and wear characteristic of Al-Cu-Mg alloy coating reinforced by nickel aluminide. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	2
135	Four unusual texture transitions in high purity copper during cold deformation followed by quenching. <i>Materials Research Express</i> , 2019, 6, 016513.	1.6	1
136	Comparative investigation of microstructure and crystallographic texture effect on Ti6Al4V alloy mechanical properties. <i>Materials Chemistry and Physics</i> , 2020, 256, 123725.	4.0	1
137	Effect of Route BC Equal-Channel Angular Pressing on the Microstructure, Microtexture, and Homogeneity of Al-18%Si-4.5%Cu Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1577-1601.	2.5	1
138	Texture-Microstructure Correlation in Hot-Rolled AZ31. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 1775-1781.	1.5	0
139	Microstructure, mechanical, and electrical properties of the pure copper tubes processed by hydro-assisted tube pressing (HATP) as a new severe plastic deformation method. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 3161-3182.	3.0	0
140	Microstructure-mechanical properties evaluation of AISI 304 steel during back-annealing. <i>Canadian Metallurgical Quarterly</i> , 0, , 1-9.	1.2	0