

# Mohammad Reza Toroghinejad

## List of Publications by Citations

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4,348  
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#	Paper	IF	Citations
136	Manufacturing of high-strength aluminum/alumina composite by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 4146-4151	5.3	176
135	Nano-grained copper strip produced by accumulative roll bonding process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 473, 28-33	5.3	171
134	High-strength and highly-uniform composite produced by anodizing and accumulative roll bonding processes. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4816-4822		125
133	Effect of particle size on microstructure and mechanical properties of composites produced by ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2143-2148	5.3	115
132	Investigation of nanostructured Al/Al <sub>2</sub> O <sub>3</sub> composite produced by accumulative roll bonding process. <i>Materials &amp; Design</i> , <b>2012</b> , 35, 37-42		111
131	Application of ARB process for manufacturing high-strength, finely dispersed and highly uniform Cu/Al <sub>2</sub> O <sub>3</sub> composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 7430-7435	5.3	105
130	Investigation of the parameters of the cold roll bonding (CRB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2320-2326	5.3	105
129	Effects of ARB and ageing processes on mechanical properties and microstructure of 6061 aluminum alloy. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1184-1190	5.3	92
128	Evaluation of microstructure and mechanical properties of Al/Al <sub>2</sub> O <sub>3</sub> /SiC hybrid composite fabricated by accumulative roll bonding process. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 13-19		84
127	Nano-grained 70/30 brass strip produced by accumulative roll-bonding (ARB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 491-497	5.3	83
126	On the use of accumulative roll bonding process to develop nanostructured aluminum alloy 5083. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 561, 145-151	5.3	80
125	Effects of processing parameters on the bond strength of Cu/Cu roll-bonded strips. <i>Journal of Materials Processing Technology</i> , <b>2010</b> , 210, 560-563	5.3	75
124	Fabrication of Al/Ni/Cu composite by accumulative roll bonding and electroplating processes and investigation of its microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 558, 386-393	5.3	71
123	Effect of friction, annealing conditions and hardness on the bond strength of Al/Al strips produced by cold roll bonding process. <i>Materials &amp; Design</i> , <b>2010</b> , 31, 4508-4513		70
122	Mechanical properties and microstructure evolutions of multilayered Al/Cu composites produced by accumulative roll bonding process and subsequent annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 601, 40-47	5.3	68
121	An alternative method of processing MMCs by CAR process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2720-2724	5.3	66
120	The effects of oxide film and annealing treatment on the bond strength of Al/Cu strips in cold roll bonding process. <i>Materials &amp; Design</i> , <b>2014</b> , 53, 174-181		63

119	Compressive, shear, and fracture behavior of CNT reinforced Al matrix composites manufactured by severe plastic deformation. <i>Materials and Design</i> , <b>2016</b> , 106, 112-119	8.1	57
118	Investigation of nanostructured aluminum/copper composite produced by accumulative roll bonding and folding process. <i>Materials &amp; Design</i> , <b>2013</b> , 51, 274-279		56
117	The Role of Surface Preparation Parameters on Cold Roll Bonding of Aluminum Strips. <i>Journal of Materials Engineering and Performance</i> , <b>2011</b> , 20, 191-197	1.6	56
116	Significant improvement of semi-solid microstructure and mechanical properties of A356 alloy by ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2495-2501	5.3	56
115	Application of anodizing and CAR processes for manufacturing Al/Al <sub>2</sub> O <sub>3</sub> composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 3857-3863	5.3	56
114	EBSD analysis of nano-structured copper processed by ECAP. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 5348-5355	5.3	52
113	Fabrication and characterization of Al/SiCp composites by CAR process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 4462-4467	5.3	50
112	Effect of ARB process on textural evolution of AA1100 aluminum alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 7068-7073	5.3	50
111	Effect of stacking fault energy on deformation texture development of nanostructured materials produced by the ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 598, 263-276	5.3	48
110	Refinement of microstructure and improvement of mechanical properties of Al/Al <sub>2</sub> O <sub>3</sub> cast composite by accumulative roll bonding process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 2548-2553	5.3	46
109	Microstructure and mechanical properties of carbon nanotubes reinforced aluminum matrix composites synthesized via equal-channel angular pressing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 670, 205-216	5.3	45
108	Using ARB process as a solution for dilemma of Si and SiCp distribution in cast Al <sub>3</sub> Si/SiCp composites. <i>Journal of Materials Processing Technology</i> , <b>2011</b> , 211, 1159-1165	5.3	45
107	Effect of Al <sub>2</sub> O <sub>3</sub> nano-particles on the bond strength in CRB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 4858-4863	5.3	43
106	Effect of post-rolling annealing treatment and thickness of nickel coating on the bond strength of AlCu strips in cold roll bonding process. <i>Materials &amp; Design</i> , <b>2012</b> , 40, 212-220		41
105	Application of powder metallurgy and hot rolling processes for manufacturing aluminum/alumina composite strips. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 560, 567-574	5.3	41
104	Effect of microstructure and texture on formability and mechanical properties of hot-dip galvanized steel sheets. <i>Journal of Materials Processing Technology</i> , <b>2008</b> , 196, 205-212	5.3	41
103	Nano/Ultrafine Structured AA1100 by ARB Process. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 1352-1356	4.1	40
102	Investigation of texture and mechanical properties of copper processed by new route of equal channel angular pressing. <i>Materials &amp; Design</i> , <b>2013</b> , 44, 374-381		39

101	CAR process: A technique for significant enhancement of as-cast MMC properties. <i>Materials Characterization</i> , <b>2011</b> , 62, 1228-1234	3.9	38
100	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> , <b>2012</b> , 21, 1249-1253	1.6	36
99	Effect of rare earth substitution on magnetic and structural properties of Co <sub>1-x</sub> RE <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> (RE: Nd, Eu) nanoparticles prepared via EDTA/EG assisted sol-gel synthesis. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 662, 441-447	5.7	35
98	Texture development in Al/Al <sub>2</sub> O <sub>3</sub> MMCs produced by anodizing and ARB processes. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 3573-3580	5.3	35
97	Textural evolution of nanostructured AA5083 produced by ARB. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 556, 351-357	5.3	34
96	The influence of TiO <sub>2</sub> nano-particles on bond strength of cold roll bonded aluminum strips. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 550, 367-374	5.3	33
95	Textural evolution of nano-grained 70/30 brass produced by accumulative roll-bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 2050-2056	5.3	33
94	Extraordinary strength-ductility in gradient amorphous structured Zr-based alloy. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 888, 161507	5.7	33
93	Effect of stacking fault energy on mechanical properties of nanostructured FCC materials processed by the ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 606, 443-450	5.3	32
92	Effect of stacking fault energy on nanostructure formation under accumulative roll bonding (ARB) process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 578, 191-196	5.3	32
91	Nanostructure formation during accumulative roll bonding of commercial purity titanium. <i>Materials Characterization</i> , <b>2016</b> , 122, 98-103	3.9	30
90	Microstructure and mechanical properties of Al/SiO <sub>2</sub> composite produced by CAR process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 532, 275-281	5.3	30
89	Manufacturing of High-Performance Al <sub>3</sub> SiCp Composite by CAR Process. <i>Materials and Manufacturing Processes</i> , <b>2011</b> , 26, 902-907	4.1	30
88	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 566, 77-87	5.3	29
87	Fabrication of Al/Al <sub>2</sub> O <sub>3</sub> /TiC hybrid composite by anodizing and accumulative roll bonding processes and investigation of its microstructure and mechanical properties. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 585, 460-467	5.3	29
86	Efficiency enhancement of hole-conductor-free perovskite solar cell based on ZnO nanostructure by Al doping in ZnO. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 692, 492-502	5.7	29
85	Production of nano-grained structure in 6061 aluminum alloy strip by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 529, 442-446	5.3	27
84	Fabrication of nanoparticle strengthened IF steel via ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 583, 20-24	5.3	26

83	Application of accumulative roll bonding and anodizing process to produce Al <sub>2</sub> O <sub>3</sub> /Al composite. <i>Materials &amp; Design</i> , <b>2015</b> , 70, 53-59		26
82	Evaluation of Texture and Grain Size of Nanograined Copper Produced by the Accumulative Roll Bonding Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 1693-1700	2.3	26
81	Effect of cold-rolling on microstructure, texture and mechanical properties of an equiatomic FeCrCuMnNi high entropy alloy. <i>Materialia</i> , <b>2018</b> , 1, 175-184	3.2	23
80	Strengthening mechanisms in nanostructured interstitial free steel deformed to high strain. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 656-662	5.3	20
79	Effect of deformation route and intermediate annealing on magnetic anisotropy and magnetic properties of a 1 wt% Si non-oriented electrical steel. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2015</b> , 385, 331-338	2.8	20
78	Effect of Pulse Current Mode on Microstructure, Composition and Corrosion Performance of the Coatings Produced by Plasma Electrolytic Oxidation on AZ31 Mg Alloy. <i>Coatings</i> , <b>2019</b> , 9, 688	2.9	20
77	Investigation of Microstructure and Mechanical Properties of St37 Steel-Ck60 Steel Joints by Explosive Cladding. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4032-4043	1.6	18
76	The effect of alumina content on the mechanical properties of hybrid composites fabricated by ARB process. <i>Ceramics International</i> , <b>2014</b> , 40, 10489-10498	5.1	18
75	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> , <b>2013</b> , 44, 1587-1598	2.3	18
74	Microstructural evolution of nanostructured steel-based composite fabricated by accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 298-306	5.3	17
73	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> , <b>2015</b> , 46, 4013-4019	2.3	16
72	An alternative method for manufacturing high-strength CP TiB <sub>2</sub> /C composites by accumulative roll bonding process. <i>Materials &amp; Design</i> , <b>2014</b> , 59, 494-501		16
71	Investigation of the Microstructure and the Mechanical Properties of Cu-NiC Composite Produced by Accumulative Roll Bonding and Coating Processes. <i>Journal of Materials Engineering and Performance</i> , <b>2015</b> , 24, 4746-4754	1.6	16
70	Hybrid composites produced by anodizing and accumulative roll bonding (ARB) processes. <i>Ceramics International</i> , <b>2014</b> , 40, 10027-10035	5.1	15
69	Evaluation of the mechanical properties of the heat treated FeCrCuMnNi high entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 221, 68-77	4.4	15
68	A novel method for the fabrication of Al-matrix nanocomposites reinforced by mono-dispersed TiAl <sub>3</sub> intermetallic via a three-step process of cold-roll bonding, heat-treatment and accumulative roll bonding. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 747, 217-226	5.7	14
67	Comparison of microparticles and nanoparticles effects on deformation texture of steel-based composite and nanocomposite fabricated by the ARB process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 607, 173-187	5.3	14
66	Artificial Neural Network Modeling the Tensile Strength of Hot Strip Mill Products. <i>ISIJ International</i> , <b>2009</b> , 49, 1583-1587	1.7	14

65	Shear punch test in Al/Alumina composite strips produced by powder metallurgy and accumulative roll bonding. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 667, 383-390	5.3	14
64	Microstructure and Mechanical Properties of a Multiphase FeCrCuMnNi High-Entropy Alloy. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 2388-2398	1.6	13
63	Plasma focus method for growth of molybdenum nitride thin films: Synthesis and thin film characterization. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 727, 978-985	5.7	13
62	Influence of doping behavior of Al on nanostructure, morphology and optoelectronic properties of Al Doped ZnO thin film grown on FTO substrate. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2016</b> , 27, 10226-10236	2.1	12
61	Fabrication of Nano/Ultra-Fine Grained IF Steel via SPD Processes: a Review. <i>Transactions of the Indian Institute of Metals</i> , <b>2014</b> , 67, 787-802	1.2	12
60	Texture Development of ARB-Processed Steel-Based Nanocomposite. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 4436-4445	1.6	12
59	Stable and Antibacterial Magnesium-Graphene Nanocomposite-Based Implants for Bone Repair. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6253-6262	5.5	12
58	Production of nanograin microstructure in steel nanocomposite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 638, 143-151	5.3	11
57	Evaluating the mechanical behavior of hot rolled Al/alumina composite strips using shear punch test. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 618, 490-495	5.3	11
56	Investigation of microstructure and mechanical properties of Cu <sub>3</sub> SiCP composite produced by continual annealing and roll-bonding process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 565, 243-249	5.3	11
55	The Role of Texture and Microstructure in Optimizing the Corrosion Behaviour of Zinc Hot-dip Coated Steel Sheets. <i>ISIJ International</i> , <b>2008</b> , 48, 628-633	1.7	11
54	Grain and texture evolution in nano/ultrafine-grained bimetallic Al/Ni composite during accumulative roll bonding. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 12553-12569	4.3	10
53	Investigation of microstructure, texture, and mechanical properties of FeCrCuMnNi multiphase high entropy alloy during recrystallization. <i>Materials Characterization</i> , <b>2019</b> , 154, 253-263	3.9	10
52	Influence of copper on the structural, mechanical, and biological characteristics of Mg <sub>2</sub> AlCu alloy. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 237, 121838	4.4	10
51	The Effect of Strain on the Formation of an Intermetallic Layer in an Al-Ni Laminated Composite. <i>Metals</i> , <b>2017</b> , 7, 445	2.3	10
50	Evaluation of microstructure and texture formation during annealing of cold-rolled FeCrCuMnNi multiphase high-entropy alloy. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2020</b> , 30, 449-462	3.3	9
49	The effect of SiC nanoparticles on deformation texture of ARB-processed steel-based nanocomposite. <i>Materials Characterization</i> , <b>2014</b> , 93, 150-162	3.9	9
48	Effect of SiC Nanoparticles on Bond Strength of Cold Roll Bonded IF Steel. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 3348-3356	1.6	9

47	Influence of zirconium addition on the microstructure, thermodynamic stability, thermal stability and mechanical properties of mechanical alloyed spark plasma sintered (MA-SPS) FeCoCrNi high entropy alloy. <i>Powder Metallurgy</i> , <b>2018</b> , 61, 405-416	1.9	9
46	Effects of Heat Treatment on Interface Microstructure and Mechanical Properties of Explosively Welded Ck60/St37 Plates. <i>Journal of Materials Engineering and Performance</i> , <b>2016</b> , 25, 5330-5342	1.6	8
45	Tribocorrosion Behavior of Aluminum/Alumina Composite Manufactured by Anodizing and ARB Processes. <i>Journal of Materials Engineering and Performance</i> , <b>2011</b> , 20, 1600-1605	1.6	8
44	Study on the effect of sol-gel parameters using the Taguchi technique to achieve the optimal crystallite size and magnetic properties of cobalt ferrite powders. <i>Journal of Sol-Gel Science and Technology</i> , <b>2015</b> , 76, 271-278	2.3	7
43	Fabrication of MMC Strip by CRB Process. <i>Journal of Materials Engineering and Performance</i> , <b>2012</b> , 21, 859-864	1.6	7
42	Study on Texture Evolution and Shear Behavior of an Al/Ni/Cu Composite. <i>Journal of Materials Engineering and Performance</i> , <b>2018</b> , 27, 6004-6015	1.6	7
41	Effect of Iron content on the microstructure evolution, mechanical properties and wear resistance of FeXCoCrNi high-entropy alloy system produced via MA-SPS. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 870, 159410	5.7	6
40	Effect of bimodal microstructure on texture evolution and mechanical properties of 1050 Al alloy processed through severe plastic deformation and subsequent annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 820, 141580	5.3	6
39	Fabrication and characterization of a bimetallic Al/Cu tube using the tube sinking process. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 96, 153-159	3.2	5
38	Fabrication of hole-conductor-free perovskite solar cells based on Al doped ZnO and low-cost carbon electrode. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2018</b> , 29, 10092-10101	2.1	5
37	Texture evolution and plastic anisotropy of commercial purity titanium/SiC composite processed by accumulative roll bonding and subsequent annealing. <i>Materials Chemistry and Physics</i> , <b>2018</b> , 219, 182-188	4.4	5
36	Structural evolution and interdiffusion in Al/Cu nanocomposites produced by a novel manufacturing process. <i>Metals and Materials International</i> , <b>2012</b> , 18, 1049-1054	2.4	5
35	The multi-effects of K2TiF6 additive on the properties of PEO coatings on AZ31 Mg alloy. <i>Surface and Coatings Technology</i> , <b>2020</b> , 402, 126296	4.4	5
34	Hierarchically activated deformation mechanisms to form ultra-fine grain microstructure in carbon containing FeMnCoCr twinning induced plasticity high entropy alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2021</b> , 824, 141803	5.3	5
33	Effect of Particles on Continuous and Discontinuous Recrystallization of Nanostructured Interstitial Free Steel. <i>Jom</i> , <b>2016</b> , 68, 271-278	2.1	4
32	Investigation of hardness, wear and magnetic properties of NiCoCrFeZr HEA prepared through mechanical alloying and spark plasma sintering. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 892, 161924	5.7	4
31	Effects of carbon and molybdenum on the nanostructural evolution and strength/ductility trade-off in Fe40Mn40Co10Cr10 high-entropy alloys. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 165108	5.7	4
30	Effect of Cold Rolling Parameters on Bond Strength of Ti Particle Embedded Al Strips. <i>Transactions of the Indian Institute of Metals</i> , <b>2018</b> , 71, 2497-2504	1.2	3

29	Effects of intermediate Ni layer on mechanical properties of AlCu layered composites fabricated through cold roll bonding. <i>International Journal of Minerals, Metallurgy and Materials</i> , <b>2018</b> , 25, 573-583	3.1	3
28	The Influence of Carbon Nanotube and Roll Bonding Parameters on the Bond Strength of Al Sheets. <i>Journal of Materials Engineering and Performance</i> , <b>2014</b> , 23, 1887-1895	1.6	3
27	Hot Deformation Behavior of High Mn TWIP Steel Using the Processing Map. <i>ISIJ International</i> , <b>2015</b> , 55, 691-696	1.7	3
26	Comparison of Microparticles and Nanoparticles Effects on the Bonding of Roll Bonded IF Steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2014</b> , 67, 659-665	1.2	3
25	Effect of Heat Treatment on Formability of Hot-dip Galvanized Low Carbon Steel Sheet. <i>ISIJ International</i> , <b>2009</b> , 49, 1945-1951	1.7	3
24	Effect of Coating Thickness on Formability of Hot-dip Galvanized Low Carbon Steel Sheet. <i>ISIJ International</i> , <b>2007</b> , 47, 1510-1517	1.7	3
23	Architected lightweight steel composite: evaluation of the effect of geometrical parameters and annealing treatments on deformation behavior. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 5414-5414	5.5	3
22	Effect of Roughness and Surface Hardening on the Mechanical Properties of Three-Layered Brass/IF Steel/Brass Composite. <i>Transactions of the Indian Institute of Metals</i> , <b>2018</b> , 71, 2199-2210	1.2	3
21	A texture study of nanostructured AlCu multi-layered composite manufactured via the accumulative roll bonding (ARB). <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 14, 2909-2919	5.5	3
20	Annealing texture of nanostructured steel-based composite. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2015</b> , 639, 604-614	5.3	2
19	A study of hot compression behavior of an as-cast FeCrCuNi2Mn2 high-entropy alloy. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 896, 162732	5.7	2
18	Effects of Process Control Agent Amount, Milling Time, and Annealing Heat Treatment on the Microstructure of AlCrCuFeNi High-Entropy Alloy Synthesized through Mechanical Alloying. <i>Metals</i> , <b>2021</b> , 11, 1493	2.3	2
17	Structural, electrical, optical and morphological properties of aluminum-doped TiO <sub>2</sub> thin films deposited by spray pyrolysis method. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 7150-7163	2.1	1
16	Textural evaluation of copper produced by equal channel angular pressing with routes A and B30. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 6260-6269	5.3	1
15	Effects of processing parameters on the fracture behaviour of cold roll bonded and accumulative roll bonded AlCu lamellar composites. <i>Materials Science and Technology</i> , <b>2021</b> , 37, 1096-1106	1.5	1
14	Corrosion and wear resistance of coatings produced on AZ31 Mg alloy by plasma electrolytic oxidation in silicate-based K <sub>2</sub> TiF <sub>6</sub> containing solution: Effect of waveform. <i>Journal of Magnesium and Alloys</i> , <b>2021</b> ,	8.8	1
13	Effect of prior cold deformation on recrystallization behavior of a multi-phase FeCrCuMnNi high entropy alloy. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 272, 124991	4.4	1
12	Evaluation of aluminium/alumina/titanium composites produced by continual annealing and roll-bonding process. <i>Materials Science and Technology</i> , <b>2019</b> , 35, 1614-1623	1.5	0



11	Abnormal texture evolution of accumulative roll bonded Al-Cu by adding alumina particles.. <i>Heliyon</i> , <b>2022</b> , 8, e08723	3.6	o
10	Microstructure and Mechanical Properties of Nanostructured CoCrFeMoTi High-Entropy Alloy Fabricated by Mechanical Alloying and Spark Plasma Sintering. <i>Journal of Materials Engineering and Performance</i> , <b>2019</b> , 28, 7710-7725	1.6	o
9	Microstructure and Texture Development in Al $\beta$ %Brass Composite Produced through ARB. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1700463	3.5	o
8	Effects of Annealing on the Fabrication of Al-TiAl <sub>3</sub> Nanocomposites Before and After Accumulative Roll Bonding and Evaluation of Strengthening Mechanisms. <i>Acta Metallurgica Sinica (English Letters)</i> ,1	2.5	o
7	Grain boundary engineering in roll-bonded copper to overcome the strength-ductility dilemma. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 3198-3204	5.5	o
6	Data supporting the hierarchically activated deformation mechanisms to form ultra-fine grain microstructure in carbon containing FeMnCoCr twinning induced plasticity high entropy alloy.. <i>Data in Brief</i> , <b>2022</b> , 42, 108052	1.2	o
5	Enhancement of mechanical properties of a novel single phase Ni <sub>1.5</sub> FeCrCu <sub>0.5</sub> HEA through cold rolling and subsequent annealing. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2022</b> , 848, 143360	5.3	o
4	Characterization of aluminum/alumina/TiC hybrid composites in 3D produced by anodizing and accumulating roll bonding process using synchrotron radiation tomography. <i>Journal of Composite Materials</i> , <b>2019</b> , 53, 1215-1227	2.7	
3	Influence of Stacking Fault Energy on the Grain Size of FCC Metals Fabricated by Accumulative Roll Bonding Process. <i>Advanced Materials Research</i> , <b>2014</b> , 1064, 131-137	0.5	
2	An Investigation of the Bonding Behavior of Aluminum Strips in the Presence of an Alumina Layer During the Cold Roll Bonding Process. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 685-691	1.2	
1	EBSDF Evaluation of Al- TiAl <sub>3</sub> Composites Manufactured Through CRB-Annealing-ARB and CRB-ARB-Annealing Methods. <i>Transactions of the Indian Institute of Metals</i> ,1	1.2	