

Hamid Reza Abedi

List of Publications by Year in descending order

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146
papers

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116194

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146
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2592
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#	ARTICLE	IF	CITATIONS
1	Unveiling the influence of dendrite characteristics on the slip/twinning activity and the strain hardening capacity of Mg-Sn-Li-Zn cast alloys. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 329-347.	5.5	12
2	Twin-based martensite stabilizing and improving the shape memory response of near equiatomic NiTi alloy through multi-axial forging. <i>Journal of Materials Research and Technology</i> , 2022, 16, 39-46.	2.6	3
3	Dynamic strain aging and twin formation during warm deformation of a novel medium-entropy lightweight steel. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1628-1641.	2.6	8
4	Toward superior fatigue and corrosion fatigue crack initiation resistance of Sanicro 28 pipe super austenitic stainless steel. <i>Journal of Materials Research and Technology</i> , 2022, 17, 1672-1685.	2.6	6
5	Strain dependency of dynamic recrystallization during thermomechanical processing of Mg-Gd-Y-Zn-Zr alloy. <i>Journal of Materials Research and Technology</i> , 2022, 18, 591-598.	2.6	19
6	Interplay of austenite and ferrite deformation mechanisms to enhance the strength and ductility of a duplex low-density steel. <i>Journal of Materials Research and Technology</i> , 2022, 18, 755-768.	2.6	9
7	The correlation of c-to-a axial ratio and slip activity of martensite including microstructures during thermomechanical processing of Ti-6Al-4V alloy. <i>Journal of Materials Research and Technology</i> , 2022, 18, 577-583.	2.6	6
8	Effect of second phase particles on the microstructure and texture of rare earth elements containing magnesium matrix surface-composite produced by friction stir processing. <i>Journal of Materials Research and Technology</i> , 2022, 18, 2428-2434.	2.6	11
9	Constructing the high temperature efficiency and instability maps of selective laser melted 316L stainless steel through artificial neural network modeling. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4578-4589.	2.6	12
10	Room temperature compressive superplasticity of low density steel. <i>Scripta Materialia</i> , 2022, 216, 114757.	2.6	5
11	Temperature dependence of tensile deformation behavior and strain hardening of lean duplex stainless steels. <i>Journal of Materials Research and Technology</i> , 2022, 20, 330-342.	2.6	6
12	An anomalous effect of grain refinement on yield stress in friction stir processed lightweight steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140057.	2.6	6
13	Thermal stability, microstructure and texture evolution of thermomechanical processed AlCoCrFeNi _{2.1} eutectic high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140012.	2.6	53
14	Step-by-step texture modification through strain path change toward improvement of the hardening capacity in a twinning-induced-plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140269.	2.6	1
15	The high temperature mechanical properties and the correlated microstructure/ texture evolutions of a TWIP high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 802, 140600.	2.6	22
16	Compressive/tensile deformation behavior and the correlated microstructure evolution of Ti-6Al-4V titanium alloy at warm temperatures. <i>Journal of Materials Research and Technology</i> , 2021, 10, 1291-1300.	2.6	30
17	On the effect of Mn-content on the strength-ductility balance in Ni-free high N transformation induced plasticity steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141260.	2.6	10
18	Comparing the mechanical properties, microstructure, texture and in-vitro degradation behavior of TNTZ/nano-fluorapatite composite and TNTZ bioalloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 117, 104402.	1.5	1

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19	Development of grain size/ texture graded microstructures through friction stir processing and subsequent cold compression of a rare earth bearing magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 814, 141190.	2.6	6
20	On the damage mechanisms during compressive dwell-fatigue of \hat{t}^2 -annealed Ti-6242S alloy. <i>International Journal of Fatigue</i> , 2021, 146, 106158.	2.8	6
21	The high temperature deformation behavior of a triplex (ferrite+ austenite+ martensite) low density steel. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1388-1401.	2.6	13
22	The correlation of austenite stability and sequence of strain accommodation during room temperature deformation of a duplex lightweight steel. <i>Journal of Materials Research and Technology</i> , 2021, 13, 1923-1932.	2.6	4
23	Bi-directional ferrite to austenite transformation through warm temperature deformation of a ferrite-based low density steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 821, 141596.	2.6	6
24	On the warm temperature strain accommodation mechanisms of Ti-6Al-4V alloy holding different starting microstructures. <i>Journal of Materials Research and Technology</i> , 2021, 14, 496-506.	2.6	13
25	Decelerated grain growth kinetic and effectiveness of Hall-Petch relationship in a cold-rolled non-equiatom high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021, 874, 159849.	2.8	12
26	Asymmetrical superelastic behavior of thermomechanically processed semi-equiatom NiTi alloy in tensile and compressive modes of deformation. <i>Journal of Alloys and Compounds</i> , 2021, 878, 160443.	2.8	7
27	Double-stage hardening behavior of a lightweight eutectic high entropy alloy in the course of low cycle fatigue. <i>Vacuum</i> , 2021, 192, 110481.	1.6	6
28	Unraveling the effect of deformation-induced phase transformation on microstructure and micro-texture evolution of a multi-axially forged Mg-Gd-Y-Zn-Zr alloy containing the LPSO phase. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2088-2101.	2.6	16
29	The enhanced warm temperature ductility of Ti-6Al-4V alloy through strain induced martensite reversion and recrystallization. <i>Materials Letters</i> , 2021, 302, 130405.	1.3	12
30	Microstructural-constraint induced ferrite refinement during compressive deformation of a triplex ferrite-based low density steel. <i>Vacuum</i> , 2021, 193, 110534.	1.6	1
31	Substructure induced dendrite-fragmentation during thermomechanical processing of as-cast Mg-Sn-Li-Zn alloy. <i>Materials Letters</i> , 2021, 305, 130690.	1.3	6
32	On the fatigue and dwell-fatigue behavior of a low-density steel and the correlated microstructure origin of damage mechanism. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6136-6154.	2.6	13
33	Microstructure, texture and mechanical properties of a nickel-free high nitrogen duplex stainless steel processed through friction stir spot welding. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6491-6505.	2.6	6
34	On the microstructure and RE-texture evolution during hot tensile deformation of Mg-Gd-Y-Zn-Zr alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6974-6989.	2.6	16
35	An investigation into the polylactic acid texturization through thermomechanical processing and the improved d33 piezoelectric outcome of the fabricated scaffolds. <i>Journal of Materials Research and Technology</i> , 2021, 15, 6356-6366.	2.6	15
36	Polylactic Acid Piezo-Biopolymers: Chemistry, Structural Evolution, Fabrication Methods, and Tissue Engineering Applications. <i>Journal of Functional Biomaterials</i> , 2021, 12, 71.	1.8	25

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37	Microstructural evolution and mechanical properties of thermomechanically processed AZ31 magnesium alloy reinforced by micro-graphite and nano-graphene particles. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152231.	2.8	22
38	Room-temperature micro and macro mechanical properties of the metastable Ti-29Nb-14Ta-4.5Zr alloy holding nano-sized precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138583.	2.6	16
39	Outstanding Mild Wear Performance of Ti-29Nb-14Ta-4.5Zr Alloy Through Subsurface Grain Refinement and Supporting Effect of Transformation Induced Plasticity. <i>Metals and Materials International</i> , 2020, 26, 467-476.	1.8	13
40	Tribological Performance and Electrochemical Behavior of Ti-29Nb-14Ta-4.5Zr Alloy in Simulated Physiological Solution. <i>Advanced Engineering Materials</i> , 2020, 22, 1900758.	1.6	5
41	Development of a novel RE-texture component in a Mg-Y-RE/SiCp magnesium composite through friction stir processing. <i>Materials Letters</i> , 2020, 260, 126899.	1.3	5
42	Reversible dislocation movement, martensitic transformation and nano-twinning during elastic cyclic loading of a metastable high entropy alloy. <i>Acta Materialia</i> , 2020, 185, 474-492.	3.8	48
43	The hierarchical texture evolution of RE-component during friction stir processing of Mg-RE/SiCp composite. <i>Materials Letters</i> , 2020, 263, 127209.	1.3	10
44	Development of fresh and fully recrystallized microstructures through friction stir processing of a rare earth bearing magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 775, 138837.	2.6	32
45	On the activation of alternated stacking fault pair twinning mechanism in a very large-grained Fe-29Mn-2.4Al steel. <i>Scripta Materialia</i> , 2020, 178, 301-306.	2.6	14
46	The effect of nano-size second precipitates on the structure, apatite-inducing ability and in-vitro biocompatibility of Ti-29Nb-14Ta-4.5Zr alloy. <i>Materials Science and Engineering C</i> , 2020, 109, 110561.	3.8	12
47	In-situ frictional grain refinement of Ti-29Nb-14Ta-4.5Zr bio-alloy during high-speed sliding wear. <i>Materials Letters</i> , 2020, 261, 127083.	1.3	11
48	The effect of rare earth elements on the work softening behavior of as-cast Mg-4Al-2Sn. <i>Materials Research Express</i> , 2020, 7, 086509.	0.8	4
49	Formation and Stabilization of 18R Long-Period Stacking Order Phase Through Friction Stir Processing of Mg-Gd-Y-Zn Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 5623-5627.	1.1	3
50	Throughput study of diffusion along the twin boundaries in Mg-5Sn-0.3Li as-cast alloy and its effect on the homogenization during hot deformation. <i>Materials Letters</i> , 2020, 281, 128446.	1.3	2
51	An investigation into microstructure and high-temperature mechanical properties of selective laser-melted 316L stainless steel toward the development of hybrid Ampliforge process. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 383-394.	1.5	16
52	Optimizing the austenite stability in a ferritic lightweight steel through thermomechanical processing. <i>Materials Characterization</i> , 2020, 166, 110367.	1.9	14
53	A new insight into LPSO transformation during multi-axial forging in Mg-Gd-Y-Zn-Zr alloy. <i>Materials Letters</i> , 2020, 269, 127625.	1.3	16
54	The correlation between the recrystallization texture and subsequent isothermal grain growth in a friction stir processed rare earth containing magnesium alloy. <i>Materials Characterization</i> , 2020, 163, 110236.	1.9	23

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55	Duality in dislocation density-superelasticity correlation in a TNTZ bio alloy processed by cold rolling and subsequent annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 782, 139181.	2.6	4
56	Strain induced transformation, dynamic recrystallization and texture evolution during hot compression of an extruded Mg-Gd-Y-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 778, 139021.	2.6	41
57	Stress-relaxation viewpoint to study the room-temperature cyclic deformation behavior of a low-density steel. <i>International Journal of Fatigue</i> , 2020, 139, 105673.	2.8	11
58	Dynamic restoration of the ferrite and austenite phases during hot compressive deformation of a lean duplex stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139400.	2.6	23
59	Effect of Ca additions on evolved microstructures and subsequent mechanical properties of a cast and hot-extruded Mg-Zn-Zr magnesium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 4265-4275.	1.5	16
60	The enhanced static recrystallization kinetics of a non-equiatom high entropy alloy through the reverse transformation of strain induced martensite. <i>Journal of Alloys and Compounds</i> , 2019, 806, 1550-1563.	2.8	29
61	Evaluating the high temperature superplastic behavior of a thermomechanically processed Al-Cu aluminum alloy through miniaturized testing method. <i>Materials Research Express</i> , 2019, 6, 105010.	0.8	5
62	The effect of nano-size second phases on the tribological performance of TNTZ alloy. <i>Materials Research Express</i> , 2019, 6, 095031.	0.8	1
63	The high temperature flow behavior of additively manufactured Inconel 625 superalloy. <i>Materials Research Express</i> , 2019, 6, 116514.	0.8	39
64	Microstructure evolution and corrosion behavior of Ti-29Nb-13Ta-4.6Zr nano-biocomposite fabricated by friction stir processing in simulated body fluid solution. <i>Materials Research Express</i> , 2019, 6, 105414.	0.8	6
65	Texture evolution and wear properties of a frictionally stir processed magnesium matrix composite reinforced by micro graphite and nano graphene particles. <i>Materials Research Express</i> , 2019, 6, 1065c6.	0.8	9
66	An investigation into the dynamic recrystallization behavior of a non-equiatom high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 768, 138423.	2.6	12
67	The wear induced crystallographic texture transition in Ti-29Nb-14Ta-4.5Zr alloy. <i>Applied Surface Science</i> , 2019, 491, 360-373.	3.1	16
68	Novel analytical approach for evaluating the mechanical properties of friction stir spot joints through constitutive modeling. <i>Engineering Fracture Mechanics</i> , 2019, 216, 106522.	2.0	6
69	Achievement of fine-grained bimodal microstructures and superior mechanical properties in a multi-axially forged GWZ magnesium alloy containing LPSO structures. <i>Journal of Alloys and Compounds</i> , 2019, 793, 134-145.	2.8	56
70	The grain boundary character distribution in thermomechanically processed rare earth bearing magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019, 798, 158-166.	2.8	14
71	Microstructure evolution and room temperature mechanical properties of a thermomechanically processed ferrite-based low density steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 754, 57-67.	2.6	20
72	The enhancement of transformation induced plasticity effect through preferentially oriented substructure development in a high entropy alloy. <i>Intermetallics</i> , 2019, 109, 145-156.	1.8	15

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73	<i>In vitro</i> comparative investigation of bioactivity and biocompatibility behavior of titanium nano-composites fabricated by friction stir processing. <i>Materials Research Express</i> , 2019, 6, 125425.	0.8	1
74	The subsurface frictional hardening: A new approach to improve the high-speed wear performance of Ti-29Nb-14Ta-4.5Zr alloy against Ti-6Al-4V extra-low interstitial. <i>Wear</i> , 2019, 422-423, 137-150.	1.5	16
75	The Effect of Martensite-Austenite Constituent Characteristics on the Mechanical Behavior of Quenched-Partitioned Steel at Room Temperature. <i>Steel Research International</i> , 2019, 90, 1800399.	1.0	6
76	Room temperature mechanical properties and microstructure of a low alloyed TRIP-assisted steel subjected to one-step and two-step quenching and partitioning process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 341-349.	2.6	39
77	Micro and macro texture evolution during multiaxial forging of a WE43 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2018, 739, 249-259.	2.8	46
78	The sequential twinning-transformation induced plasticity effects in a thermomechanically processed high Mn austenitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 725, 242-249.	2.6	18
79	Grain Refinement through Shear Banding in Severely Plastic Deformed A206 Aluminum Alloy. <i>Advanced Engineering Materials</i> , 2018, 20, 1700502.	1.6	12
80	The room temperature tensile deformation behavior of thermomechanically processed β -metastable Ti-Nb-Ta-Zr bio-alloy: the role of deformation-induced martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 738, 15-23.	2.6	19
81	The Correlation of Macrostructure, Microstructure, and Texture with Room Temperature Mechanical Properties of a Twinning-Induced Plasticity Automotive Steel after Friction Stir Spot Welding/Processing. <i>Steel Research International</i> , 2018, 89, 1800245.	1.0	29
82	On the microstructure evolution during isothermal low cycle fatigue of β -annealed Ti-6242S titanium alloy: Internal damage mechanism, substructure development and early globularization. <i>International Journal of Fatigue</i> , 2018, 116, 592-601.	2.8	43
83	Trading off between dynamic strain aging and substructure evolution in β -carbide-free lightweight steel at room temperature. <i>Scripta Materialia</i> , 2018, 157, 110-114.	2.6	9
84	Substructure Development and Deformation Twinning Stimulation through Regulating the Processing Path during Multi-Axial Forging of Twinning Induced Plasticity Steel. <i>Advanced Engineering Materials</i> , 2018, 20, 1800453.	1.6	11
85	Qualitative and Quantitative Analysis of Thermomechanical Behavior of an Al ₄ Sr-Dispersed In Situ Composite. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 1236-1244.	1.2	4
86	Macrostructure evolution and mechanical properties of accumulative roll bonded Al/Cu/Sn multilayer composite. <i>Journal of Alloys and Compounds</i> , 2017, 703, 605-613.	2.8	41
87	The microstructure, texture, and room temperature mechanical properties of friction stir processed Mg-Y-Nd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 690, 244-253.	2.6	50
88	Transformation and twinning induced plasticity in an advanced high Mn austenitic steel processed by martensite reversion treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 696, 511-519.	2.6	21
89	Enhancing the strength and ductility in accumulative back extruded WE43 magnesium alloy through achieving bimodal grain size distribution and texture weakening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 698, 218-229.	2.6	54
90	Corrosion behavior of thermo-mechanically processed biomedical Ti-29Nb-13Ta-4.6Zr. <i>Journal of Alloys and Compounds</i> , 2017, 725, 23-31.	2.8	20

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91	Correlating the microstructure to mechanical properties and wear behavior of an accumulative back extruded Al-Mg ₂ Si in-situ composite. <i>Tribology International</i> , 2017, 115, 199-211.	3.0	34
92	Substructure hardening in duplex low density steel. <i>Materials and Design</i> , 2017, 116, 472-480.	3.3	35
93	Continuous dynamic recrystallization in low density steel. <i>Materials and Design</i> , 2017, 114, 55-64.	3.3	85
94	Substructure induced twinning in low density steel. <i>Scripta Materialia</i> , 2017, 128, 69-73.	2.6	36
95	The Local Characterization of Individual Phase Mechanical Properties Using Nano-Indentation and In Situ Scanning Probe Microscopy in an Advanced High Strength Steel. <i>Steel Research International</i> , 2017, 88, 1600274.	1.0	6
96	The microstructure evolution and room temperature deformation behavior of ferrite-based lightweight steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 665, 10-16.	2.6	14
97	Characterization of twin-like structure in a ferrite-based lightweight steel. <i>Metals and Materials International</i> , 2016, 22, 810-816.	1.8	17
98	The effects of bimodal grain size distributions on the work hardening behavior of a Transformation-TWinning induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 678, 23-32.	2.6	41
99	The Enhanced Shape Memory Effect and Mechanical Properties in Thermomechanically Processed Semi-Equiatomic NiTi Shape Memory Alloy. <i>Advanced Engineering Materials</i> , 2016, 18, 251-258.	1.6	11
100	Processing Map Development through Elaborating Phenomenological and Physical Constitutive Based Models. <i>Advanced Engineering Materials</i> , 2016, 18, 572-581.	1.6	12
101	Modified constitutive analysis and activation energy evolution of a low-density steel considering the effects of deformation parameters. <i>Mechanics of Materials</i> , 2016, 95, 60-70.	1.7	62
102	Hot Ductility Characterization of Sanicro-28 Super-Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 2037-2048.	1.1	15
103	High-Temperature Deformation Characteristics of a β -Type Ti-29Nb-13Ta-4.6Zr Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 1554-1561.	1.2	8
104	Micro and macro-mechanical behavior of a transformation-induced plasticity steel developed by thermomechanical processing followed by quenching and partitioning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 233-240.	2.6	32
105	Evolution of microstructure and mechanical properties in a hypoeutectic Al-Si-Mg alloy processed by accumulative back extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 651, 269-279.	2.6	38
106	Hot deformation characterization of duplex low-density steel through 3D processing map development. <i>Materials Characterization</i> , 2015, 107, 293-301.	1.9	73
107	The Mg ₂ Si phase evolution during thermomechanical processing of in-situ aluminum matrix macro-composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 310-317.	2.6	25
108	The Shear Punch Jump Test—a Novel Application of a Small Specimen Testing Technique for Rapid Evaluation of Deformation Mechanisms. <i>Experimental Mechanics</i> , 2015, 55, 1569-1573.	1.1	2

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109	An investigation into the fracture mechanisms of twinning-induced-plasticity steel sheets under various strain paths. <i>Journal of Materials Processing Technology</i> , 2015, 224, 102-116.	3.1	35
110	Hot ductility behavior of an extruded 7075 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 637, 107-122.	2.6	53
111	The evolution of β -Mg ₁₇ Al ₁₂ intermetallic compound during accumulative back extrusion and subsequent ageing treatment. <i>Philosophical Magazine</i> , 2015, 95, 3497-3523.	0.7	24
112	Microstructure and mechanical properties of Mg/SiC and AZ80/SiC nano-composites fabricated through stir casting method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 625, 81-88.	2.6	103
113	High Temperature Formability Prediction of Dual Phase Brass Using Phenomenological and Physical Constitutive Models. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 209-220.	1.2	28
114	The coupled temperature-strain rate sensitivity of Ti-29Nb-13Ta-4.6Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 610, 258-262.	2.6	13
115	Dynamic recrystallization behavior of new transformation twinning induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 607, 397-408.	2.6	20
116	Evaluating the room temperature mechanical properties of age hardened AZ80 magnesium alloy using shear punch testing method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 360-369.	2.6	17
117	An investigation into the room temperature mechanical properties and microstructural evolution of thermomechanically processed TWIP steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 596, 200-206.	2.6	10
118	Mechanical properties improvement of cast AZ80 Mg alloy/nano-particles composite via thermomechanical processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 595, 284-290.	2.6	50
119	The strain accommodation in Ti-28Nb-12Ta-5Zr alloy during warm deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 592, 57-63.	2.6	9
120	Modification of the grain structure, β phase morphology and texture in AZ81 Mg alloy through accumulative back extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 595, 99-108.	2.6	38
121	Instantaneous strain rate sensitivity of wrought AZ31 magnesium alloy. <i>Materials & Design</i> , 2013, 49, 173-180.	5.1	55
122	The semisolid microstructural evolution of a severely deformed A356 aluminum alloy. <i>Materials & Design</i> , 2013, 49, 878-887.	5.1	60
123	Ductility improvement in AZ31 magnesium alloy using constrained compression testing technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 576, 74-81.	2.6	8
124	Artificial neural network modeling to predict the hot deformation behavior of an A356 aluminum alloy. <i>Materials & Design</i> , 2013, 49, 386-391.	5.1	146
125	Flow behavior modeling of a Ti-6Al-7Nb biomedical alloy during manufacturing at elevated temperatures. <i>Materials & Design</i> , 2013, 51, 457-465.	5.1	48
126	An investigation into the room temperature mechanical properties of nanocrystalline austenitic stainless steels. <i>Materials & Design</i> , 2013, 45, 674-681.	5.1	47

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127	The ductility behavior of a high-Mn twinning induced plasticity steel during cold-to-hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 561, 411-418.	2.6	17
128	Low-temperature strain-induced ferrite transformation in twinning-induced plasticity steel. <i>Scripta Materialia</i> , 2012, 67, 995-998.	2.6	24
129	On the recrystallization behavior of homogenized AZ81 magnesium alloy: The effect of mechanical twins and I^3 precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 44-51.	2.6	76
130	The Application of Shear Compression Specimen to Study Shear Deformation Behavior of AZ31 Mg Alloy at High Temperatures and Quasi-Static Regime. <i>Experimental Mechanics</i> , 2012, 52, 629-636.	1.1	8
131	The room temperature mechanical properties of hot rolled 7075 aluminum alloy. <i>Materials & Design</i> , 2012, 34, 631-636.	5.1	71
132	An investigation to the hot deformation characteristics of AZ31 alloy through continuous cooling compression testing method. <i>Materials & Design</i> , 2012, 36, 470-476.	5.1	16
133	Microstructure evolution and mechanical properties of backward thixoextruded 7075 aluminum alloy. <i>Materials & Design</i> , 2012, 36, 557-563.	5.1	38
134	Artificial neural network modeling to predict the high temperature flow behavior of an AZ81 magnesium alloy. <i>Materials & Design</i> , 2012, 39, 390-396.	5.1	139
135	An analysis of the deformation characteristics of a dual phase twinning-induced plasticity steel in warm working temperature regime. <i>Materials & Design</i> , 2012, 40, 556-561.	5.1	36
136	Microstructure evolution and mechanical properties of back extruded 7075 aluminum alloy at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 593-600.	2.6	77
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