

Gholamreza Ebrahimi

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papers

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22
h-index

35
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80
ext. papers

1,813
ext. citations

3.9
avg, IF

5.16
L-index

#	Paper	IF	Citations
77	Hot deformation behavior and microstructural evolution of a superaustenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1605-1611	5.3	100
76	Microstructure evolution at the onset of discontinuous dynamic recrystallization: A physics-based model of subgrain critical size. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 199-210	5.7	81
75	Dynamic recrystallization behavior of a superaustenitic stainless steel containing 16%Cr and 25%Ni. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7488-7493	5.3	81
74	A comparative H ₂ S corrosion study of 304L and 316L stainless steels in acidic media. <i>Corrosion Science</i> , 2011 , 53, 399-408	6.8	77
73	Microstructure, mechanical analysis and optimal selection of 7075 aluminum alloy based composite reinforced with alumina nanoparticles. <i>Materials Chemistry and Physics</i> , 2016 , 178, 119-127	4.4	67
72	Modeling the initiation of dynamic recrystallization using a dynamic recovery model. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 9387-9393	5.7	65
71	The influence of flow-forming parameters and microstructure on the quality of a D6ac steel. <i>Journal of Materials Processing Technology</i> , 2000 , 103, 362-366	5.3	49
70	Dynamic Recrystallization Behavior of 13%Cr Martensitic Stainless Steel under Hot Working Condition. <i>Journal of Materials Science and Technology</i> , 2012 , 28, 467-473	9.1	46
69	Effect of thermomechanical parameters on dynamically recrystallized grain size of AZ91 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 2703-2708	5.7	45
68	Modeling the Flow Curve Characteristics of 410 Martensitic Stainless Steel Under Hot Working Condition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 2898-2904	2.3	42
67	Hot deformation behavior and dynamic recrystallization kinetics of AZ61 and AZ61 + Sr magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 104-114	8.8	40
66	Modeling of hot deformation behavior and prediction of flow stress in a magnesium alloy using constitutive equation and artificial neural network (ANN) model. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 134-144	8.8	38
65	Dynamic recrystallization and precipitation in low carbon low alloy steel 26NiCrMoV 14-5. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 551, 25-31	5.3	36
64	Predicting the flow stress behavior of Ni-42.5Ti-3Cu during hot deformation using constitutive equations. <i>Metals and Materials International</i> , 2013 , 19, 5-9	2.4	33
63	Effect of graphene nanoplatelets content on the microstructural and mechanical properties of AZ80 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 742, 373-389	5.3	32
62	Flow curves, dynamic recrystallization and precipitation in a medium carbon low alloy steel. <i>Vacuum</i> , 2017 , 142, 135-145	3.7	31
61	The effect of heat treatment on hot deformation behaviour of Al 2024. <i>Journal of Materials Processing Technology</i> , 2008 , 206, 25-29	5.3	31

60	Effect of chemical composition and processing variables on the hot flow behavior of leaded brass alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 1-8	5.3	28
59	Dynamic recrystallization and precipitation in high manganese austenitic stainless steel during hot compression. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014 , 21, 36-45	3.1	26
58	Effects of hot rolling and inter-stage annealing on the microstructure and texture evolution in a partially homogenized AZ91 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 214-227	5.3	25
57	Modeling the High Temperature Flow Behavior and Dynamic Recrystallization Kinetics of a Medium Carbon Microalloyed Steel. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 1077-1087	1.6	23
56	Dynamic Recrystallization and Precipitation in 13Cr Super-Martensitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 2219-2231	2.3	23
55	Developing the Processing Maps Using the Hyperbolic Sine Constitutive Equation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5567-5576	2.3	22
54	Hot compression deformation behavior of AISI 321 austenitic stainless steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013 , 20, 529-534	3.1	22
53	Constitutive analysis and processing map for hot working of a Ni-Cu alloy. <i>Metals and Materials International</i> , 2013 , 19, 11-17	2.4	22
52	Dynamic recrystallization in Monel400 Ni-Cu alloy: Mechanism and role of twinning. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 376-385	5.3	22
51	Hot deformation and processing maps of K310 cold work tool steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 550, 152-159	5.3	21
50	Improving the mechanical properties and biocorrosion resistance of extruded Mg-Zn-Ca-Mn alloy through hot deformation. <i>Materials Chemistry and Physics</i> , 2019 , 234, 245-258	4.4	20
49	Characterization of Hot Deformation Behavior of AMS 5708 Nickel-Based Superalloy Using Processing Map. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3940-3945	1.6	20
48	Texture evaluation in warm deformation of an extruded Mg β Al β Zn alloy. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 89-98	8.8	19
47	Microstructure, mechanical properties and failure behaviour of protrusion friction stir spot welded 2024 aluminium alloy sheets. <i>Science and Technology of Welding and Joining</i> , 2018 , 23, 295-307	3.7	16
46	Hot deformation behavior and DRX mechanism in a γ -cobalt-based superalloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138165	5.3	16
45	Kinetics and critical conditions for initiation of dynamic recrystallization during hot compression deformation of AISI 321 austenitic stainless steel. <i>Metals and Materials International</i> , 2017 , 23, 964-973	2.4	15
44	Twin-assisted precipitation during hot compression of an Mg-Gd-Zn-Zr magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 706, 142-152	5.3	15
43	Modeling the viscoplastic behavior and grain size in a hot worked Nb-bearing high-Mn steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 714, 25-35	5.3	14

42	Optimizing and investigating influence of manufacturing techniques on the microstructure and mechanical properties of AZ80-0.5Ca-1.5Al ₂ O ₃ nanocomposite. <i>Materials Chemistry and Physics</i> , 2017 , 199, 485-496	4.4	14
41	Multi-stage thermomechanical behavior of AISI 410 martensitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 520-527	5.3	14
40	Achieving extraordinary combination of strength and elongation of AZ80-0.5Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 690, 313-322	5.3	13
39	Microstructure evaluations and mechanical properties of rheo-cast AZ80/Ca/Al ₂ O ₃ nanocomposite after extrusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 693, 33-41	5.3	13
38	High mechanical performance of similar Al joints produced by a novel spot friction welding technique. <i>Vacuum</i> , 2018 , 147, 172-186	3.7	12
37	Hot deformation behavior of AZ91 magnesium alloy in temperature ranging from 350°C to 425°C. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 2066-2071	3.3	12
36	Processing map and microstructure evaluation of AA6061/Al ₂ O ₃ nanocomposite at different temperatures. <i>Transactions of Nonferrous Metals Society of China</i> , 2017 , 27, 1248-1256	3.3	11
35	Microstructure and flow behavior of cast 2304 duplex stainless steel at elevated temperatures. <i>Journal of Materials Research</i> , 2016 , 31, 3939-3947	2.5	11
34	Synergetic effect of GNPs and MgOs on the mechanical properties of Mg ₉₂ Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 761, 138025	5.3	10
33	High mechanical efficiency, microstructure evaluation and texture of rheo-casted and extruded AZ80-Ca alloy reinforced with processed Al ₂ O ₃ /GNPs hybrid reinforcement. <i>Materials Chemistry and Physics</i> , 2018 , 218, 246-255	4.4	10
32	The structure effect of carbonaceous reinforcement on the microstructural characterization and mechanical behavior of AZ80 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 809, 151682	5.7	10
31	A novel single pass severe plastic deformation method using combination of planar twist extrusion and conventional extrusion. <i>Journal of Manufacturing Processes</i> , 2019 , 47, 427-436	5	10
30	Strain-dependent constitutive modelling of AZ80 magnesium alloy containing 0.5 wt% rare earth elements and evaluation of its validation using finite element method. <i>Metals and Materials International</i> , 2014 , 20, 1073-1083	2.4	10
29	Effect of Micro-Alloy Elements on Dynamic Recrystallization Behavior of a High-Manganese Steel. <i>Steel Research International</i> , 2018 , 89, 1700559	1.6	9
28	Effect of precipitation on the warm deformation behavior of AA2024 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 681, 10-17	5.3	9
27	Production of SnO ₂ nano-particles by hydrogel thermal decomposition method. <i>Materials Letters</i> , 2011 , 65, 1249-1251	3.3	9
26	Deformation behavior and processing maps of Mg-Zn-Y alloy containing I phase at elevated temperatures. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 629-641	3.3	9
25	Study on hot deformation behavior of AISI 414 martensitic stainless steel using 3D processing map. <i>Journal of Manufacturing Processes</i> , 2020 , 56, 916-927	5	8

24	Microstructure and mechanical characterizations of graphene nanoplatelets-reinforced Mg ₉₇ Ca alloy as a novel composite in structural and biomedical applications. <i>Journal of Composite Materials</i> , 2020 , 54, 711-728	2.7	8
23	Microstructure refinement, mechanical and biocorrosion properties of Mg ₉₇ Zn ₁ CaMn alloy improved by a new severe plastic deformation process. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	8
22	Hot compression deformation characteristics and microstructural evolution of a Co ₁₀ Cr ₁₀ Mo ₁₀ alloy: Effect of precipitate and martensitic transformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 383-392	5.3	7
21	Formation of precipitates in parallel arrays on LPSO structures during hot deformation of GZ41K magnesium alloy. <i>Materials Characterization</i> , 2017 , 131, 234-243	3.9	7
20	Evaluation of the Kinetics of Dynamic Recovery in AISI 321 Austenitic Stainless Steel Using Hot Flow Curves. <i>Transactions of the Indian Institute of Metals</i> , 2017 , 70, 1755-1761	1.2	7
19	Effect of heat treatment variables on microstructure and mechanical properties of 15Cr ₂ Ni _{0.08} C martensitic stainless steel. <i>Ironmaking and Steelmaking</i> , 2011 , 38, 123-128	1.3	7
18	The effect of homogenization on microstructure and hot ductility behaviour of AZ91 magnesium alloy. <i>Metallic Materials</i> , 2010 , 48, 277-87	1.3	7
17	Investigation on the homogenization treatment and element segregation on the microstructure of a Ti-cobalt-based superalloy. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019 , 26, 222-233	3.1	7
16	Genetic prediction of cement mortar mechanical properties with different cement strength class after freezing and thawing cycles. <i>Structural Concrete</i> , 2018 , 19, 1341-1352	2.6	6
15	Optimum selection of A356/Al ₂ O ₃ nano/microcomposites fabricated with different conditions based on mathematical method. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2017 , 231, 373-381	1.3	5
14	Microstructural evolution of a superaustenitic stainless steel during a two-step deformation process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 181-189	3.1	5
13	Mechanical and microstructure properties of deformed Al ₂ O ₃ nanocomposite at elevated temperature. <i>Journal of Materials Research</i> , 2017 , 32, 1118-1128	2.5	4
12	Thermomechanical Characterization of Mg-9Al-1Zn Alloy Using Power Dissipation Maps. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 3306-3314	1.6	4
11	Effect of thermo-mechanical parameters on microstructure and mechanical properties of microalloyed steels. <i>Brazilian Journal of Physics</i> , 2010 , 40,	1.2	4
10	Modelling the yield point phenomena during deformation at elevated temperatures: case study on Inconel 600. <i>Philosophical Magazine</i> , 2018 , 98, 2543-2561	1.6	4
9	TEMPERATURE DEPENDENCE OF HIGH FIELD ELECTRON TRANSPORT PROPERTIES IN WURTZITE PHASE GaN FOR DEVICE MODELING. <i>International Journal of Modern Physics B</i> , 2008 , 22, 3915-3922	1.1	2
8	The effects and improvements of GNPs+CNTs on the mechanical properties and microstructure of AZ80 matrix composite. <i>International Journal of Lightweight Materials and Manufacture</i> , 2021 , 4, 323-338	2.2	2
7	Development of processing map for InX-750 superalloy using hyperbolic sinus equation and ANN model. <i>Rare Metals</i> , 2018 , 40, 3598	5.5	1

6	Relationship between mechanical properties, microstructure and texture evaluations during hot deformation of AZ63 magnesium alloy. <i>Materials Research Express</i> , 2019 , 6, 066509	1.7	○
5	The influence of new severe plastic deformation on microstructure, mechanical and corrosion properties of Mg-0.8Mn-0.5Ca alloy. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2021 , 46-46 ¹		○
4	Effect of Boron on the Microstructure Evolution and Dynamic Recrystallization Kinetics of ALLVAC718Plus Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 212-227	1.6	○
3	Influence of Strain Rate on the Interactions Between Precipitation and Recrystallization during Hot Deformation of Ni-Based Superalloy Nimonic 80A. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 212-227	1.6	
2	Mechanical Characteristics of Superaustenitic Stainless Steel Type 30Cr25Ni32Mo3 at Elevated Temperatures. <i>Journal of Engineering and Applied Sciences</i> , 2010 , 5, 388-393	1.3	
1	A New Model Formulation for Electron Interactions in Ge. <i>Research Journal of Applied Sciences</i> , 2011 , 6, 25-30	1	