

Hamed Mirzadeh

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192
papers

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199
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ext. citations

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avg, IF

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#	Paper	IF	Citations
192	Constitutive relationships for hot deformation of austenite. <i>Acta Materialia</i> , 2011 , 59, 6441-6448	8.4	201
191	Hot deformation behavior of a medium carbon microalloyed steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3876-3882	5.3	199
190	Prediction of the critical conditions for initiation of dynamic recrystallization. <i>Materials & Design</i> , 2010 , 31, 1174-1179		196
189	EBSD study of a hot deformed austenitic stainless steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 236-245	5.3	163
188	Transformation-induced plasticity (TRIP) in advanced steels: A review. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 140023	5.3	124
187	Hot deformation behavior, dynamic recrystallization, and physically-based constitutive modeling of plain carbon steels. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 636, 196-202	5.3	119
186	Constitutive analysis of Mg _{0.1} Al _{0.9} Zn magnesium alloys during hot deformation. <i>Mechanics of Materials</i> , 2014 , 77, 80-85	3.3	110
185	Flow Curve Analysis of 17-4 PH Stainless Steel under Hot Compression Test. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 2950-2958	2.3	106
184	Rate controlling mechanisms during hot deformation of Mg _{0.3} Gd _{0.1} Zn magnesium alloy: Dislocation glide and climb, dynamic recrystallization, and mechanical twinning. <i>Materials & Design</i> , 2015 , 68, 228-231		90
183	Aging kinetics of 17-4 PH stainless steel. <i>Materials Chemistry and Physics</i> , 2009 , 116, 119-124	4.4	90
182	Toward unraveling the effects of intermetallic compounds on the microstructure and mechanical properties of Mg _{0.2} Gd _{0.1} Al _{0.9} Zn magnesium alloys in the as-cast, homogenized, and extruded conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 688, 33-46	5.3	87
181	A simple constitutive model for predicting flow stress of medium carbon microalloyed steel during hot deformation. <i>Materials & Design</i> , 2015 , 77, 126-131		86
180	Nano/ultrafine grained austenitic stainless steel through the formation and reversion of deformation-induced martensite: Mechanisms, microstructures, mechanical properties, and TRIP effect. <i>Materials Characterization</i> , 2015 , 103, 150-161	3.9	86
179	Constitutive modeling and prediction of hot deformation flow stress under dynamic recrystallization conditions. <i>Mechanics of Materials</i> , 2015 , 85, 66-79	3.3	85
178	Modeling and Prediction of Hot Deformation Flow Curves. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 108-123	2.3	83
177	Cladding of aluminum on AISI 304L stainless steel by cold roll bonding: Mechanism, microstructure, and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 613, 232-239	5.3	76
176	Tailoring the microstructure and mechanical properties of AISI 316L austenitic stainless steel via cold rolling and reversion annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 759, 90-96	5.3	75

175	Flow stress prediction at hot working conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1160-1164	5.3	71
174	Effect of microstructural refinement and intercritical annealing time on mechanical properties of high-formability dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 736, 22-26	5.3	65
173	Microstructural Evolutions During Annealing of Plastically Deformed AISI 304 Austenitic Stainless Steel: Martensite Reversion, Grain Refinement, Recrystallization, and Grain Growth. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4210-4216	2.3	64
172	Correlation between processing parameters and strain-induced martensitic transformation in cold worked AISI 301 stainless steel. <i>Materials Characterization</i> , 2008 , 59, 1650-1654	3.9	64
171	Solidification behavior and Laves phase dissolution during homogenization heat treatment of Inconel 718 superalloy. <i>Vacuum</i> , 2018 , 154, 235-243	3.7	63
170	Hot deformation behavior of austenitic stainless steel for a wide range of initial grain size. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 569, 54-60	5.3	62
169	Hot deformation and dynamic recrystallization of NiTi intermetallic compound. <i>Journal of Alloys and Compounds</i> , 2014 , 614, 56-59	5.7	61
168	A Simplified Approach for Developing Constitutive Equations for Modeling and Prediction of Hot Deformation Flow Stress. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 4027-4037	2.3	60
167	Hot Deformation and Dynamic Recrystallization of 17-4 PH Stainless Steel. <i>ISIJ International</i> , 2013 , 53, 680-689	1.7	59
166	The rate of dynamic recrystallization in 17-4 PH stainless steel. <i>Materials & Design</i> , 2010 , 31, 4577-4583		59
165	Enhanced Ductility of a Fine-Grained Mg-Gd-Al-Zn Magnesium Alloy by Hot Extrusion. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701171	3.5	58
164	Unraveling the Initial Microstructure Effects on Mechanical Properties and Work-Hardening Capacity of Dual-Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 4565-4573	2.3	58
163	Quantification of the strengthening effect of rare earth elements during hot deformation of Mg-Gd-Y-Zr magnesium alloy. <i>Journal of Materials Research and Technology</i> , 2016 , 5, 1-4	5.5	54
162	Constitutive behaviors of magnesium and Mg-Zn-Zr alloy during hot deformation. <i>Materials Chemistry and Physics</i> , 2015 , 152, 123-126	4.4	54
161	A simple Zerilli-Armstrong constitutive equation for modeling and prediction of hot deformation flow stress of steels. <i>Mechanics of Materials</i> , 2016 , 94, 38-45	3.3	52
160	Effects of Grain Size on Mechanical Properties and Work-Hardening Behavior of AISI 304 Austenitic Stainless Steel. <i>Steel Research International</i> , 2019 , 90, 1900153	1.6	52
159	Deformation-induced martensite in austenitic stainless steels: A review. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	51
158	Constitutive analysis of wrought Mg-Gd magnesium alloys during hot compression at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 1200-1206	5.7	50

157	Synergistic effect of Al and Gd on enhancement of mechanical properties of magnesium alloys. <i>Progress in Natural Science: Materials International</i> , 2017 , 27, 228-235	3.6	49
156	Fine tuning the mechanical properties of dual phase steel via thermomechanical processing of cold rolling and intercritical annealing. <i>Materials Chemistry and Physics</i> , 2019 , 230, 1-8	4.4	49
155	The Effects of Grain Refinement and Rare Earth Intermetallics on Mechanical Properties of As-Cast and Wrought Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1327-1333	1.6	48
154	Hot compression behavior of GZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 631, 1-6	5.7	47
153	Quantification of the strengthening effect of reinforcements during hot deformation of aluminum-based composites. <i>Materials & Design</i> , 2015 , 65, 80-82		47
152	Microstructural Evolutions During Reversion Annealing of Cold-Rolled AISI 316 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 2248-2256	2.3	45
151	Extrapolation of flow curves at hot working conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1856-1860	5.3	45
150	Mechanical properties of a hot deformed Al-Mg ₂ Si in-situ composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 726, 10-17	5.3	44
149	Constitutive Description of 7075 Aluminum Alloy During Hot Deformation by Apparent and Physically-Based Approaches. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 1095-1099	1.6	43
148	Tailoring the mechanical properties of Mg ₂ Zn magnesium alloy by calcium addition and hot extrusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 774, 138929	5.3	39
147	Modification of Rule of Mixtures for Estimation of the Mechanical Properties of Dual-Phase Steels. <i>Journal of Materials Engineering and Performance</i> , 2017 , 26, 2683-2688	1.6	38
146	Elucidating the effect of intermetallic compounds on the behavior of Mg ₂ Al ₃ Zn magnesium alloys at elevated temperatures. <i>Journal of Materials Research</i> , 2017 , 32, 4186-4195	2.5	38
145	Thermal Mechanisms of Grain Refinement in Steels: A Review. <i>Metals and Materials International</i> , 2020 , 27, 2078	2.4	38
144	Abnormal grain growth in AISI 304L stainless steel. <i>Materials Characterization</i> , 2014 , 97, 11-17	3.9	38
143	Micro-mechanisms and precipitation kinetics of delta (δ) phase in Inconel 718 superalloy during aging. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 207-212	5.7	36
142	A comparative study on the hot flow stress of Mg ₂ Al ₃ Zn magnesium alloys using a simple physically-based approach. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 225-229	8.8	36
141	Fine-grained dual phase steel via intercritical annealing of cold-rolled martensite. <i>Vacuum</i> , 2018 , 155, 147-152	3.7	36
140	Microstructural Evolution During Normal/Abnormal Grain Growth in Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 5185-5193	2.3	34

139	Simple physically-based constitutive equations for hot deformation of 2024 and 7075 aluminum alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 1614-1618	3.3	32
138	Unraveling the effects of Zn addition and hot extrusion process on the microstructure and mechanical properties of as-cast Mg ₂ Al magnesium alloy. <i>Vacuum</i> , 2019 , 167, 214-222	3.7	32
137	Processing of Cu-Fe and Cu-Fe-SiC nanocomposites by mechanical alloying. <i>Advanced Powder Technology</i> , 2017 , 28, 1882-1887	4.6	31
136	Synergistic effects of holding time at intercritical annealing temperature and initial microstructure on the mechanical properties of dual phase steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 750, 125-131	5.3	31
135	ANN modeling of strain-induced martensite and its applications in metastable austenitic stainless steels. <i>Journal of Alloys and Compounds</i> , 2009 , 476, 352-355	5.7	30
134	Modeling the kinetics of deformation-induced martensitic transformation in AISI 316 metastable austenitic stainless steel. <i>Vacuum</i> , 2018 , 157, 243-248	3.7	30
133	Tailoring the Microstructure and Mechanical Properties of Dual Phase Steel Based on the Initial Microstructure. <i>Steel Research International</i> , 2017 , 88, 1600385	1.6	29
132	Enhancement of mechanical properties of low carbon dual phase steel via natural aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 734, 178-183	5.3	29
131	A review of recent progress in mechanical and corrosion properties of dual phase steels. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	27
130	Modeling the reversion of martensite in the cold worked AISI 304 stainless steel by artificial neural networks. <i>Materials & Design</i> , 2009 , 30, 570-573		27
129	Enhanced mechanical properties of dual-phase steel by repetitive intercritical annealing. <i>Canadian Metallurgical Quarterly</i> , 2017 , 56, 459-463	0.9	26
128	Enhancement of the microstructure and elevated temperature mechanical properties of as-cast Mg-Al ₂ Ca-Mg ₂ Ca in-situ composite by hot extrusion. <i>Materials Characterization</i> , 2019 , 147, 155-164	3.9	26
127	Hot deformation behavior and flow stress modeling of Ti ₃ Al ₂ V alloy produced via electron beam melting additive manufacturing technology in single β phase field. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139822	5.3	25
126	Estimation of the kinetics of martensitic transformation in austenitic stainless steels by conventional and novel approaches. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 624, 256-260	5.3	24
125	Optimization of turning process using artificial intelligence technology. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 70, 1205-1217	3.2	24
124	Fluidity of Al ₃ Bi semisolid slurries during rheocasting by a novel process. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 4977-4982	5.3	24
123	Effect of Zn addition on the microstructure and mechanical properties of Mg-0.5Ca-0.5RE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152380	5.7	24
122	Effect of Intercritical Annealing on Mechanical Properties and Work-Hardening Response of High Formability Dual Phase Steel. <i>Steel Research International</i> , 2018 , 89, 1700412	1.6	24

121	The effect of primary thermo-mechanical treatment on TRIP steel microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 402-406	5.3	23
120	Effect of Intercritical Annealing Conditions on Grain Growth Kinetics of Dual Phase Steel. <i>Metals and Materials International</i> , 2019 , 25, 1039-1046	2.4	22
119	Homogenization kinetics of a typical nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2019 , 793, 277-282	5.7	22
118	Enhanced mechanical properties of as-cast AZ91 magnesium alloy by combined RE-Sr addition and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139817	5.3	22
117	High strain rate superplasticity via friction stir processing (FSP): A review. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141499	5.3	22
116	Improved mechanical properties of mild steel via combination of deformation, intercritical annealing, and quench aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 268-271	5.3	20
115	A new intermetallic phase formation in MgSiNi magnesium-based in-situ formed alloys. <i>Vacuum</i> , 2019 , 164, 349-354	3.7	20
114	Enhanced mechanical properties of AZ91 magnesium alloy by inoculation and hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 802, 140667	5.3	20
113	Elucidating the Effect of Alloying Elements on the Behavior of Austenitic Stainless Steels at Elevated Temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 5698-5703	2.3	19
112	Refinement of Banded Structure via Thermal Cycling and Its Effects on Mechanical Properties of Dual Phase Steel. <i>Steel Research International</i> , 2018 , 89, 1700531	1.6	18
111	Prevention of surface hot shortness, development of banded structure, and mechanical properties of hot rolled Cu-bearing steel. <i>Engineering Failure Analysis</i> , 2016 , 68, 132-137	3.2	18
110	Dynamic recrystallization kinetics in Mg-3Gd-1Zn magnesium alloy during hot deformation. <i>International Journal of Materials Research</i> , 2016 , 107, 277-279	0.5	18
109	Enhanced Mechanical Properties of Microalloyed Austenitic Stainless Steel Produced by Martensite Treatment. <i>Advanced Engineering Materials</i> , 2015 , 17, 1226-1233	3.5	17
108	Molecular dynamics simulation of stress field around edge dislocations in Aluminum. <i>Computational Materials Science</i> , 2014 , 84, 83-96	3.2	17
107	Development of dynamic recrystallization maps based on the initial grain size. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 90-95	5.3	17
106	Effects of tempering on the mechanical and corrosion properties of dual phase steel. <i>Materials Today Communications</i> , 2020 , 22, 100745	2.5	17
105	Processing Route Effects on the Mechanical and Corrosion Properties of Dual Phase Steel. <i>Metals and Materials International</i> , 2020 , 26, 882-890	2.4	17
104	A Simple Constitutive Model for Prediction of Single-Peak Flow Curves Under Hot Working Conditions. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016 , 138,	1.8	16

103	Interdiffusion coefficients of alloying elements in a typical Ni-based superalloy. <i>Vacuum</i> , 2019 , 169, 1088-1095	3.7	16
102	Significance of Martensite Reversion and Austenite Stability to the Mechanical Properties and Transformation-Induced Plasticity Effect of Austenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 3233-3242	1.6	15
101	Toward unraveling the mechanisms responsible for the formation of ultrafine grained microstructure during tempering of cold rolled martensite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 670, 252-255	5.3	15
100	Microstructural evolution and grain growth kinetics of GZ31 magnesium alloy. <i>Materials Characterization</i> , 2016 , 118, 584-592	3.9	15
99	A review of hot deformation behavior and constitutive models to predict flow stress of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163964	5.7	15
98	Modification of As-cast Al-Mg/B4C composite by addition of Zr. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 70-77	5.7	15
97	Aging kinetics and mechanical properties of copper-bearing low-carbon HSLA-100 microalloyed steel. <i>Archives of Civil and Mechanical Engineering</i> , 2019 , 19, 1409-1418	3.4	14
96	Effect of Si and Ni on microstructure and mechanical properties of in-situ magnesium-based composites in the as-cast and extruded conditions. <i>Materials Chemistry and Physics</i> , 2019 , 232, 305-310	4.4	13
95	Effect of grain size on the corrosion resistance of low carbon steel. <i>Materials Research Express</i> , 2020 , 7, 016522	1.7	13
94	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg/Mg2Si composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141574	5.3	13
93	Dynamic deformation response of Al-Mg and Al-Mg/B4C composite at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 645-654	5.3	13
92	Enhanced mechanical properties of as-cast Mg-Al-Ca magnesium alloys by friction stir processing. <i>Materials Letters</i> , 2021 , 296, 129880	3.3	13
91	Estimating interface bonding strength in clad sheets based on tensile test results. <i>Materials & Design</i> , 2014 , 64, 307-309		12
90	Hot deformation behaviour of precipitation hardening stainless steel. <i>Materials Science and Technology</i> , 2010 , 26, 501-504	1.5	12
89	Effects of rheocasting parameters on the microstructure of rheo-centrifuged cast Al-7.1 wt%Si alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 257-263	5.7	12
88	Unexpected formation of delta (δ) phase in as-cast niobium-bearing superalloy at solution annealing temperatures. <i>Materials Letters</i> , 2020 , 261, 127008	3.3	12
87	Revisiting the Diffusion of Niobium in an As-Cast Nickel-Based Superalloy During Annealing at Elevated Temperatures. <i>Metals and Materials International</i> , 2020 , 26, 326-332	2.4	12
86	Microstructural investigation of Al-Mg/B4C composite deformed at elevated temperature. <i>Journal of Alloys and Compounds</i> , 2018 , 763, 643-651	5.7	12

85	Processing of fine grained AISI 304L austenitic stainless steel by cold rolling and high-temperature short-term annealing. <i>Materials Research Express</i> , 2018 , 5, 056529	1.7	12
84	Ferrite recrystallisation and intercritical annealing of cold-rolled low alloy medium carbon steel. <i>Materials Science and Technology</i> , 2019 , 35, 1932-1941	1.5	11
83	Recent advances in the kinetics of normal/abnormal grain growth: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	11
82	Mechanical properties of Mg-Al-Mn magnesium alloys with low Al content in the as-cast and extruded conditions. <i>Materials Research Express</i> , 2019 , 6, 106521	1.7	10
81	Grain refinement and enhanced mechanical properties of ZK20 magnesium alloy via hot extrusion and mischmetal addition. <i>Materials Research Express</i> , 2019 , 6, 116522	1.7	10
80	Ball milling criteria for producing nano intermetallic compounds. <i>Materials Science and Technology</i> , 2010 , 26, 281-284	1.5	10
79	Mechanical Behavior of As-Cast and Extruded Mg-Si-Ni-Ca Magnesium Alloys. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 7728-7735	1.6	10
78	Enhancement of work-hardening behavior of dual phase steel by heat treatment. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018 , 49, 1081-1086	0.9	10
77	Additive manufacturing A review of hot deformation behavior and constitutive modeling of flow stress. <i>Current Opinion in Solid State and Materials Science</i> , 2022 , 26, 100992	12	10
76	Amorphization and mechano-crystallization of high-energy ball milled Fe Ti alloys. <i>Journal of Non-Crystalline Solids</i> , 2019 , 520, 119466	3.9	9
75	Precipitation kinetics of γ phase and its mechanism in a Nb-bearing nickel-based superalloy during aging. <i>Vacuum</i> , 2020 , 178, 109456	3.7	9
74	Thermodynamics basis of saturation of martensite content during reversion annealing of cold rolled metastable austenitic steel. <i>Vacuum</i> , 2020 , 174, 109220	3.7	9
73	Unraveling the Effect of Homogenization Treatment on Decomposition of Austenite and Mechanical Properties of Low-Alloyed TRIP Steel. <i>Steel Research International</i> , 2016 , 87, 820-823	1.6	9
72	Unraveling the Effect of Thermomechanical Treatment on the Dissolution of Delta Ferrite in Austenitic Stainless Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 641-648	2.3	9
71	Revealing the As-Cast and Homogenized Microstructures of Niobium-Bearing Nickel-Based Superalloy. <i>International Journal of Metalcasting</i> , 2019 , 13, 320-330	1.4	9
70	Tempering of deformed and as-quenched martensite in structural steel. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2019 , 55, 95-99	1	9
69	Unraveling the Effect of Martensite Volume Fraction on the Mechanical and Corrosion Properties of Low-Carbon Dual-Phase Steel. <i>Steel Research International</i> , 2020 , 91, 1900327	1.6	9
68	Unraveling the Effect of Deformation Temperature on the Mechanical Behavior and Transformation-Induced Plasticity of the SUS304L Stainless Steel. <i>Steel Research International</i> , 2020 , 91, 2000114	1.6	8

67	Developing constitutive equations of flow stress for hot deformation of AZ31 magnesium alloy under compression, torsion, and tension. <i>International Journal of Material Forming</i> , 2019 , 12, 643-648	2	8
66	Constitutive modeling of flow stress during hot deformation of Sn-Al-Zn-Cu-Mg multi-principal-element alloy. <i>Vacuum</i> , 2019 , 170, 108970	3-7	8
65	Phase transformation mechanism and kinetics during step quenching of st37 low carbon steel. <i>Materials Research Express</i> , 2019 , 6, 1165f2	1-7	8
64	Superplasticity of high-entropy alloys: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22, 1	3-4	8
63	Spheroidization heat treatment and intercritical annealing of low carbon steel. <i>Journal of Mining and Metallurgy, Section B: Metallurgy</i> , 2019 , 55, 405-411	1	8
62	Improved Mechanical Properties of Structural Steel via Developing Bimodal Grain Size Distribution and Intercritical Heat Treatment. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 5409-5414	1-6	7
61	Toward understanding the origins of poor ductility in a metal-matrix composite processed by accumulative roll bonding (ARB). <i>Archives of Civil and Mechanical Engineering</i> , 2019 , 19, 958-966	3-4	7
60	Multi-Axial Incremental Forging and Shearing as a New Severe Plastic Deformation Processing Technique. <i>Advanced Engineering Materials</i> , 2015 , 17, 1197-1207	3-5	7
59	Crystallization kinetics of mechanically alloyed amorphous Fe-Ti alloys during annealing. <i>Advanced Powder Technology</i> , 2020 , 31, 3215-3221	4-6	7
58	Prediction of Proper Temperatures for the Hot Stamping Process Based on the Kinetics Models. <i>Journal of Materials Engineering and Performance</i> , 2015 , 24, 572-585	1-6	7
57	Physically based constitutive description of OFHC copper at hot working conditions. <i>Metallic Materials</i> , 2016 , 53, 105-111	1-3	7
56	Deformation of Pure Aluminum Along the Groove Path of ECAP-Conform Process . <i>Advanced Engineering Materials</i> , 2016 , 18, 319-323	3-5	7
55	Effect of Intercritical Annealing Time at Pearlite Dissolution Finish Temperature (Ac1f) on Mechanical Properties of Low-Carbon Dual-Phase Steel. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 2178-2183	1-6	6
54	Mechanical properties and fracture behavior of intercritically annealed AISI 4130 chromoly steel. <i>Materials Research Express</i> , 2018 , 5, 066548	1-7	6
53	Evaluating the Effect of Hot-Rolling Reduction on the Mechanical Properties of In Situ Formed Aluminum-Magnesium-Silicon (Al-Mg2Si) Composites. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900609	3-5	6
52	Amorphization, mechano-crystallization, and crystallization kinetics of mechanically alloyed AlFeCuZnTi high-entropy alloys. <i>Materials Letters</i> , 2022 , 307, 131098	3-3	6
51	Effects of spheroidization heat treatment and intercritical annealing on mechanical properties and corrosion resistance of medium carbon dual phase steel. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123721	1-1	6
50	Effect of Drawing Strain on Development of Martensitic Transformation and Mechanical Properties in AISI 304L Stainless Steel Wire. <i>Steel Research International</i> , 2017 , 88, 1600423	1-6	5

49	Evolutions of mechanical properties of AISI 304L stainless steel under shear loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 791, 139667	5.3	5
48	Effects of hot rolling and homogenisation treatment on low alloy steel ingot. <i>Materials Science and Technology</i> , 2020 , 36, 835-842	1.5	5
47	Elucidating the effects of microsegregation on the precipitation phenomena in as-cast Nb-bearing superalloy. <i>Materials Letters</i> , 2020 , 266, 127481	3.3	5
46	Tempering of Cold-Rolled Martensite in Mild Steel and Elucidating the Effects of Alloying Elements. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 858-865	1.6	5
45	Phase Transformation Kinetics During Annealing of Cold-Rolled AISI 309Si Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1955-1959	2.3	5
44	Dependency of Deformation Behavior of Retained Austenite in TRIP Steels on Microstructural and Chemical Homogeneity. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015 , 28, 1272-1277	2.5	4
43	Physically-based constitutive modeling of NiTi intermetallic compound during hot deformation. <i>Canadian Metallurgical Quarterly</i> , 2016 , 55, 387-390	0.9	4
42	A comprehensive approach for quantitative characterization and modeling of composite microstructures. <i>Applied Mathematical Modelling</i> , 2016 , 40, 8826-8831	4.5	4
41	Toward Unraveling the Importance of Deformed Microstructure before TRIP Heat Treatment in Transformation-Induced Plasticity Steels. <i>Steel Research International</i> , 2017 , 88, 1600275	1.6	4
40	Improvement of mechanical properties of in situ Mg-Si composites via Cu addition and hot working. <i>Journal of Alloys and Compounds</i> , 2022 , 164176	5.7	4
39	Estimation of homogenisation time for superalloys based on a new diffusional model. <i>Materials Science and Technology</i> , 2020 , 36, 380-384	1.5	4
38	Enhanced tensile properties of as-cast Mg-10Al magnesium alloy via strontium addition and hot working. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	4
37	Static recrystallization kinetics of ferrite in cold-deformed medium carbon steel. <i>Materials Research Express</i> , 2019 , 6, 1265g9	1.7	4
36	Microstructure tailoring for property improvements of DP steel via cyclic intercritical annealing. <i>Materials Research Express</i> , 2019 , 6, 126513	1.7	4
35	Enhanced mechanical properties of dual phase steel via cross rolling and intercritical annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 804, 140778	5.3	4
34	Numerical and analytical solutions for determination of interdiffusion coefficients in superalloys during homogenization. <i>Materials Today Communications</i> , 2019 , 21, 100631	2.5	3
33	Unraveling the effects of surface preparation on the pitting corrosion resistance of austenitic stainless steel. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	3
32	Constitutive description of severely deformed metals based on dimensional analysis. <i>Materials Science and Technology</i> , 2014 , 30, 719-724	1.5	3

31	A dislocation assisted self-consistent constitutive model for the high-temperature deformation of particulate metal-matrix composite. <i>Philosophical Magazine</i> , 2021 , 101, 276-305	1.6	3
30	Effect of Gd on Dynamic Recrystallization Behavior of Magnesium During Hot Compression. <i>Metals and Materials International</i> , 2021 , 27, 843-850	2.4	3
29	Tailoring the mechanical properties of hypereutectic in situ Al/Mg ₂ Si composites via hybrid TiB ₂ reinforcement and hot extrusion. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22, 1	3.4	3
28	Texture development during hot deformation of Al/Mg alloy reinforced with ceramic particles. <i>Journal of Alloys and Compounds</i> , 2019 , 798, 267-272	5.7	2
27	Crystal Plasticity Analysis of Texture Evolution of Pure Aluminum During Processing by a New Severe Plastic Deformation Technique. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 941-948	2.3	2
26	Dependency of Natural Aging on the Ferrite Grain Size in Dual-Phase Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 4961-4964	2.3	2
25	Evaluation of cast-on-strap joints in lead-acid batteries. <i>Materials Characterization</i> , 2009 , 60, 1555-1560	3.9	2
24	Microstructures and mechanical performance of Mg ₂ Si/Ni ₂ Y in situ composite after extrusion process. <i>Materials Science and Technology</i> , 2022 , 38, 169-180	1.5	2
23	Modeling the compressive strength of cement mortar nano-composites. <i>Computers and Concrete</i> , 2012 , 10, 49-57		2
22	Enhanced mechanical properties of Mg ₂ Ni/RE alloys via hot extrusion. <i>Materials Science and Technology</i> , 1-6	1.5	2
21	Processing, microstructure adjustments, and mechanical properties of dual phase steels: a review. <i>Materials Science and Technology</i> , 2021 , 37, 561-591	1.5	2
20	Finite element analysis of plastic deformation in shear punch test. <i>Materials Letters</i> , 2021 , 284, 128953	3.3	2
19	Delta processing effects on the creep behavior of a typical Nb-bearing nickel-based superalloy. <i>Vacuum</i> , 2021 , 184, 109913	3.7	2
18	Synergistic Effects of Cerium-Based Rare Earth Addition and Hot Deformation on the Microstructure and Mechanical Properties of Mg-0.5Zn-0.5Zr Magnesium Alloy. <i>Metals and Materials International</i> , 1	2.4	2
17	Mechanical response of a metastable austenitic stainless steel under different deformation modes. <i>Materials Science and Technology</i> , 2021 , 37, 103-109	1.5	2
16	Prediction of Temperatures of Austenite Equilibrium Transformations in Steels During Thermomechanical Processing. <i>Journal of Materials Engineering and Performance</i> , 2014 , 23, 3710-3717	1.6	1
15	Grain growth in nanocrystalline iron and Fe-Al alloys. <i>Metals and Materials International</i> , 2010 , 16, 83-86	2.4	1
14	Semi-Solid Casting of Al-7wt%Si Alloy in Expendable Molds. <i>Solid State Phenomena</i> , 2006 , 116-117, 497-500	5.0	1

13	Two-step annealing treatment for grain refinement of cold-worked AISI 316L stainless steel. <i>International Journal of Materials Research</i> , 2020 , 111, 676-680	0.5	1
12	Improved properties of dual-phase steel via pre-intercritical annealing treatment and thermal cycling. <i>Materials Science and Technology</i> , 2020 , 36, 1663-1670	1.5	1
11	Tempering kinetics and corrosion resistance of quenched and tempered AISI 4130 medium carbon steel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> ,	1.6	1
10	Controlling the mechanical properties of carbon steel by thermomechanical treatment 2018 ,		1
9	Synergistic effects of alloying, homogenization, and hot extrusion on the mechanical properties of as-cast Mg ₅₀ Al ₅₀ magnesium alloys. <i>Archives of Civil and Mechanical Engineering</i> , 2021 , 21, 1	3.4	1
8	Detailed HallPetch Analysis of Cold Rolled and Annealed Duplex 2205 Stainless Steel. <i>Steel Research International</i> ,2100676	1.6	1
7	Mechanical properties of as-cast and wrought Mg ₅₀ Ni-xAl magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 840, 142996	5.3	1
6	Superplasticity of bulk metallic glasses (BMGs): A review. <i>Journal of Non-Crystalline Solids</i> , 2022 , 583, 121503	3.9	1
5	Mathematical modeling of energy transfer to sheet surface layers and optimization of roll bonding strength. <i>International Journal of Materials Research</i> , 2015 , 106, 1250-1257	0.5	0
4	Mechanical alloying and consolidation of copper-iron-silicon carbide nanocomposites. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2020 , 51, 1700-1704	0.9	0
3	Cold unidirectional/cross-rolling of austenitic stainless steels: a review. <i>Archives of Civil and Mechanical Engineering</i> , 2022 , 22,	3.4	0
2	Microstructure and Mechanical Properties of Dual-Phase Steels by Combining Adjusted Initial Microstructures and Severe Plastic Deformation. <i>Steel Research International</i> ,2100596	1.6	
1	Microstructure, mechanical properties, and pitting corrosion resistance of SAF 2205 duplex stainless steel after friction hydro-pillar processing. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 120, 2047	3.2	