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212
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avg, IF

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#	Paper	IF	Citations
212	Texture development and its effect on mechanical properties of an AZ61 Mg alloy fabricated by equal channel angular pressing. <i>Acta Materialia</i> , 2003 , 51, 3293-3307	8.4	462
211	Thoracic pedicle screw fixation in spinal deformities: are they really safe?. <i>Spine</i> , 2001 , 26, 2049-57	3.3	383
210	Mechanical properties and microstructures of an AZ61 Mg Alloy produced by equal channel angular pressing. <i>Scripta Materialia</i> , 2002 , 47, 39-44	5.6	298
209	Superplasticity in thin magnesium alloy sheets and deformation mechanism maps for magnesium alloys at elevated temperatures. <i>Acta Materialia</i> , 2001 , 49, 3337-3345	8.4	269
208	Multi-layer graphene/copper composites: Preparation using high-ratio differential speed rolling, microstructure and mechanical properties. <i>Carbon</i> , 2014 , 69, 55-65	10.4	252
207	Optimization of strength and ductility of 2024 Al by equal channel angular pressing (ECAP) and post-ECAP aging. <i>Scripta Materialia</i> , 2003 , 49, 333-338	5.6	213
206	Microstructure and mechanical properties of Mg ₂ Al ₃ Zn alloy sheets severely deformed by asymmetrical rolling. <i>Scripta Materialia</i> , 2007 , 56, 309-312	5.6	185
205	Effect of aging treatment on heavily deformed microstructure of a 6061 aluminum alloy after equal channel angular pressing. <i>Scripta Materialia</i> , 2001 , 45, 901-907	5.6	183
204	Microstructural instability and strength of an AZ31 Mg alloy after severe plastic deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 385, 300-308	5.3	168
203	Enhancement of strength and superplasticity in a 6061 Al alloy processed by equal-channel-angular-pressing. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2002 , 33, 3155-3164	2.3	151
202	Enhancement of mechanical properties and corrosion resistance of Mg ₂ Al alloys through microstructural refinement by indirect extrusion. <i>Corrosion Science</i> , 2014 , 82, 392-403	6.8	147
201	Strength and strain hardening of aluminum matrix composites with randomly dispersed nanometer-length fragmented carbon nanotubes. <i>Scripta Materialia</i> , 2013 , 68, 711-714	5.6	137
200	Improvement of high-cycle fatigue life in a 6061 Al alloy produced by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 337, 39-44	5.3	131
199	Achieving high strength and high ductility in magnesium alloys using severe plastic deformation combined with low-temperature aging. <i>Scripta Materialia</i> , 2009 , 61, 1040-1043	5.6	125
198	Micro-extrusion of ECAP processed magnesium alloy for production of high strength magnesium micro-gears. <i>Scripta Materialia</i> , 2006 , 54, 1391-1395	5.6	102
197	Large enhancement in mechanical properties of the 6061 Al alloys after a single pressing by ECAP. <i>Scripta Materialia</i> , 2005 , 53, 1207-1211	5.6	102
196	Microstructural characteristics and thermal stability of ultrafine grained 6061 Al alloy fabricated by accumulative roll bonding process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 316, 145-152	5.3	99

195	A combination of ball milling and high-ratio differential speed rolling for synthesizing carbon nanotube/copper composites. <i>Carbon</i> , 2013 , 61, 487-500	10.4	96
194	Effect of differential speed rolling on microstructure and mechanical properties of an AZ91 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 289-293	5.7	96
193	Microstructure and mechanical properties of pure Ti processed by high-ratio differential speed rolling at room temperature. <i>Scripta Materialia</i> , 2010 , 62, 451-454	5.6	92
192	Development of biodegradable Mg-Ca alloy sheets with enhanced strength and corrosion properties through the refinement and uniform dispersion of the MgCa phase by high-ratio differential speed rolling. <i>Acta Biomaterialia</i> , 2015 , 11, 531-42	10.8	91
191	Grain-Size Strengthening in Equal-Channel-Angular-Pressing Processed AZ31 Mg Alloys with a Constant Texture. <i>Materials Transactions</i> , 2005 , 46, 251-258	1.3	87
190	Ultrafine grained titanium sheets with high strength and high corrosion resistance. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8479-8485	5.3	81
189	Enhanced corrosion resistance of ultrafine-grained AZ61 alloy containing very fine particles of Mg17Al12 phase. <i>Corrosion Science</i> , 2013 , 75, 228-238	6.8	77
188	Finite element analysis of severe deformation in MgAlZn sheets through differential-speed rolling with a high speed ratio. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 570-574	5.3	74
187	Microstructure of the post-ECAP aging processed 6061 Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 464, 23-27	5.3	73
186	Superplastic flow in a Zr65Al10Ni10Cu15 metallic glass crystallized during deformation in a supercooled liquid region. <i>Scripta Materialia</i> , 2003 , 49, 1067-1073	5.6	69
185	Annealing effects on the corrosion resistance of ultrafine-grained pure titanium. <i>Corrosion Science</i> , 2014 , 89, 331-337	6.8	61
184	Difference in the Hot Compressive Behavior and Processing Maps between the As-cast and Homogenized Al-Zn-Mg-Cu (7075) Alloys. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 660-670 ^{9.1}	9.1	60
183	Mechanical properties and microstructure of ultra fine-grained copper prepared by a high-speed-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 506, 71-79	5.3	58
182	Realization of low-temperature superplasticity in MgAlZn alloy sheets processed by differential speed rolling. <i>Scripta Materialia</i> , 2007 , 57, 755-758	5.6	56
181	Effect of speed-ratio on microstructure, and mechanical properties of MgAlZn alloy, in differential speed rolling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8510-8517	5.7	55
180	Exceptionally high strength in MgAlZn alloy processed by high-ratio differential speed rolling. <i>Scripta Materialia</i> , 2011 , 65, 1105-1108	5.6	55
179	Effect of the speed ratio on grain refinement and texture development in pure Ti during differential speed rolling. <i>Scripta Materialia</i> , 2011 , 64, 49-52	5.6	53
178	Ultrafine-grained MgLiZn alloy sheets exhibiting low temperature superplasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 516, 17-22	5.3	53

177	Effect of post equal-channel-angular-pressing aging on the modified 7075 Al alloy containing Sc. <i>Journal of Alloys and Compounds</i> , 2008 , 450, 222-228	5.7	53
176	The effect of the addition of multiwalled carbon nanotubes on the uniform distribution of TiC nanoparticles in aluminum nanocomposites. <i>Scripta Materialia</i> , 2014 , 72-73, 25-28	5.6	52
175	Superplastic behavior of a fine-grained ZK60 magnesium alloy processed by high-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 322-327	5.3	51
174	Grain size and texture control of Mg ₂ Al ₃ Zn alloy sheet using a combination of equal-channel angular rolling and high-speed-ratio differential speed-rolling processes. <i>Scripta Materialia</i> , 2009 , 60, 897-900	5.6	49
173	Ultrafine-grained Mg ₂ Ni ₂ r alloy with high strength and high-strain-rate superplasticity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 538, 374-385	5.3	47
172	Effects of Mg concentration on the quasi-superplasticity of coarse-grained Al-Mg alloys. <i>Scripta Materialia</i> , 1997 , 37, 1351-1358	5.6	47
171	Texture and mechanical properties of ultrafine-grained Mg ₂ Al ₃ Zn alloy sheets prepared by high-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 874-879	5.3	45
170	Enhancement of the strain hardening ability in ultrafine grained Mg alloys with high strength. <i>Scripta Materialia</i> , 2012 , 67, 689-692	5.6	42
169	Plastic forming of the equal-channel angular pressing processed 6061 aluminum alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 487, 360-368	5.3	42
168	Microstructures and mechanical properties of Mg ₂ Al ₃ Zn alloys fabricated by high frequency electromagnetic casting method. <i>Journal of Materials Science</i> , 2009 , 44, 47-54	4.3	40
167	High-temperature deformation mechanisms and processing maps of equiatomic CoCrFeMnNi high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 528-537	5.3	39
166	High-temperature deformation behavior of carbon nanotube (CNT)-reinforced aluminum composites and prediction of their high-temperature strength. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 67, 308-315	8.4	39
165	Creep behavior of AZ31 magnesium alloy in low temperature range between 423 K and 473 K. <i>Journal of Materials Science</i> , 2007 , 42, 6171-6176	4.3	38
164	Magnesium matrix composites fabricated by using accumulative roll bonding of magnesium sheets coated with carbon-nanotube-containing aluminum powders. <i>Scripta Materialia</i> , 2012 , 67, 129-132	5.6	37
163	Enhanced corrosion resistance of high strength Mg ₂ Al ₃ Zn alloy sheets with ultrafine grains in a phosphate-buffered saline solution. <i>Corrosion Science</i> , 2013 , 74, 139-148	6.8	37
162	Temperature and strain rate effect incorporated failure criteria for sheet forming of magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 488, 468-474	5.3	34
161	Significant effects of adding trace amounts of Ti on the microstructure and corrosion properties of Mg ₂ Al ₃ Zn magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 614, 49-55	5.7	33
160	Mechanical properties and Hall-Petch relationship of the extruded Mg-Zn-Y alloys with different volume fractions of icosahedral phase. <i>Journal of Alloys and Compounds</i> , 2019 , 770, 589-599	5.7	31

159	Synthesis of ultra high strength AlMgSi alloy sheets by differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 520, 23-28	5.3	31
158	Significant strengthening in superlight Al-Mg alloy with an exceptionally large amount of Mg (13 wt%) after cold rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 36-44	5.3	31
157	Superplastic gas pressure forming of fine-grained AZ61 magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 372, 15-20	5.3	30
156	Computational analysis of effect of route on strain uniformity in equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 412, 287-297	5.3	30
155	The effect of Al to high-temperature deformation mechanisms and processing maps of Al _{0.5} CoCrFeMnNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 802, 152-165	5.7	29
154	Synthesis of high-strain-rate superplastic magnesium alloy sheets using a high-ratio differential speed rolling technique. <i>Scripta Materialia</i> , 2010 , 63, 772-775	5.6	29
153	Effects of large amounts of Mg (513 wt%) on hot compressive deformation behavior and processing maps of Al-Mg alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 1282-1299	5.7	29
152	Restoration of thoracic kyphosis in the hypokyphotic spine: a comparison between multiple-hook and segmental pedicle screw fixation in adolescent idiopathic scoliosis. <i>Journal of Spinal Disorders</i> , 1999 , 12, 489-95		29
151	Fabrication of ultrafine-grained Mg ₉ Al ₁₀ Zn magnesium alloy sheets using a continuous high-ratio differential speed rolling technique. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 594, 189-192	5.3	26
150	High-strength Mg ₉ Al ₁₀ Ca alloy with ultrafine grain size sensitive to strain rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2062-2068	5.3	26
149	Microstructure and superplasticity of Mg ₉ Al ₁₀ Ca electromagnetic casting alloys after hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 494, 391-396	5.3	26
148	Refinement of the icosahedral quasicrystalline phase and the grain size of Mg ₉ .25Zn ₁₀ .66Y alloy by high-ratio differential speed rolling. <i>Scripta Materialia</i> , 2015 , 103, 49-52	5.6	25
147	Embedding Nanofibers in a Polymer Matrix by Polymerization of Organogels Comprising Heterobifunctional Organogelators and Monomeric Solvents. <i>Chemistry of Materials</i> , 2008 , 20, 5532-5540	8.6	25
146	Microstructural instability and strength of an AZ31 Mg alloy after severe plastic deformation 2004 , 385, 300-300		25
145	Microstructure and superplasticity of the as-cast Mg ₉ Al ₁₀ Zn magnesium alloy after high-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 677, 332-339	5.3	25
144	Hot compression characteristics and processing maps of a cast Mg ₉ .5Zn ₁₀ .0Y alloy with icosahedral quasicrystalline phase. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 645-653	5.7	24
143	The improvement of corrosion resistance of AZ91 magnesium alloy through development of dense and tight network structure of Al-rich β phase by addition of a trace amount of Ti. <i>Journal of Alloys and Compounds</i> , 2017 , 696, 736-745	5.7	23
142	Microstructure and superplasticity of AZ31 sheet fabricated by differential speed rolling. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 279-282	5.7	23

141	Formation of a nanocomposite-like microstructure in Mg ₉₅ Al ₃ Zn alloy. <i>Scripta Materialia</i> , 2012 , 66, 590-593	5.6	22
140	Deformation behavior of powder-metallurgy processed high-strain-rate superplastic 20%SiCp/2124 Al composite in a wide range of temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 269, 142-151	5.3	22
139	Effect of thermal treatment on the bio-corrosion and mechanical properties of ultrafine-grained ZK60 magnesium alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 291-301	4.1	21
138	Enhanced superplasticity and diffusional creep in ultrafine-grained Mg ₉₅ Al ₃ Zn alloy with high thermal stability. <i>Scripta Materialia</i> , 2013 , 68, 179-182	5.6	21
137	Superplasticity and superplastic forming of Mg ₉₅ Al ₃ Zn alloy sheets fabricated by strip casting method. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 197-204	5.7	21
136	Particle weakening in superplastic SiC/2124 Al composites at high temperature. <i>Acta Materialia</i> , 2000 , 48, 1763-1774	8.4	21
135	Effect of refinement of grains and icosahedral phase on hot compressive deformation and processing maps of Mg-Zn-Y magnesium alloys with different volume fractions of icosahedral phase. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 181-191	9.1	21
134	Pullout behavior of superelastic SMA fibers with various end-shapes embedded in cement mortar. <i>Construction and Building Materials</i> , 2018 , 167, 605-616	6.7	20
133	Microstructures and mechanical properties of the non-equiatomic FeMnNiCoCr high entropy alloy processed by differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 727, 38-42	5.3	20
132	Analysis of strain uniformity during multi-pressing in equal channel angular extrusion. <i>Scripta Materialia</i> , 2005 , 53, 293-298	5.6	20
131	Failure prediction of magnesium alloy sheets deforming at warm temperatures using the Zener-Holloman parameter. <i>Mechanics of Materials</i> , 2010 , 42, 293-303	3.3	19
130	Superplastic deformation and crystallization behavior of Cu ₅₄ Ni ₆ Zr ₂₂ Ti ₁₈ metallic-glass sheet. <i>Intermetallics</i> , 2006 , 14, 1391-1396	3.5	19
129	The effect of 0.5 wt.% Ca addition on the hot compressive characteristics and processing maps of the cast and extruded Mg ₉₅ Al ₃ Zn alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 157-169	5.7	19
128	Development of the highly corrosion resistant AZ31 magnesium alloy by the addition of a trace amount of Ti. <i>Journal of Alloys and Compounds</i> , 2016 , 664, 25-37	5.7	18
127	Superplastic gas pressure forming of Zr ₆₅ Al ₁₀ Ni ₁₀ Cu ₁₅ metallic glass sheets fabricated by squeeze mold casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 205-210	5.3	18
126	Superplastic deformation behavior of spray-deposited hyper-eutectic Al ₇₅ Si alloy. <i>Journal of Alloys and Compounds</i> , 2000 , 308, 237-243	5.7	18
125	Prestressing effect of cold-drawn short NiTi SMA fibres in steel reinforced mortar beams. <i>Smart Materials and Structures</i> , 2016 , 25, 085041	3.4	17
124	Verification on the extreme scalability of STT-MRAM without loss of thermal stability below 15 nm MTJ cell 2014 ,		17

123	The effect of addition of Sn to copper on hot compressive deformation mechanisms, microstructural evolution and processing maps. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 749-761	5.5	17
122	Superplastic behavior of an ultrafine-grained Mg-13Zn-1.55Y alloy with a high volume fraction of icosahedral phases prepared by high-ratio differential speed rolling. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 919-925	9.1	16
121	Achieving ultrafine grained Fe-Mn-Si shape memory alloys with enhanced shape memory recovery stresses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 701, 285-288	5.3	16
120	Strength enhancement by shear-flow assisted dispersion of carbon nanotubes in aluminum matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 570, 102-105	5.3	16
119	Dispersion of TiC particles in an in situ aluminum matrix composite by shear plastic flow during high-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 325-332	5.3	16
118	Mg-Ca binary alloy sheets with Ca contents of 1 wt.% with high corrosion resistance and high toughness. <i>Corrosion Science</i> , 2015 , 98, 372-381	6.8	15
117	Effect of the volume fraction of the icosahedral phase on the microstructures, hot compressive behaviors and processing maps of Mg-Zn-Y alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 725, 711-723	5.7	15
116	Forging of Mg ₉₀ Al ₇ Zn ₃ Ca alloy prepared by high-frequency electromagnetic casting. <i>Materials & Design</i> , 2009 , 30, 4120-4125		15
115	Mechanical Properties and Texture Evolution in ECAP Processed AZ61 Mg Alloys. <i>Materials Science Forum</i> , 2003 , 419-422, 201-206	0.4	15
114	Superplasticity in PM 6061 Al alloy and elimination of strengthening effect by reinforcement in superplastic PM aluminum composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001 , 298, 166-173	5.3	15
113	Large strain hardening in Ti-0.02C carbon steel processed by equal channel angular pressing. <i>Materials Letters</i> , 2001 , 51, 177-182	3.3	15
112	High strain rate superplastic behaviour of powder-metallurgy processed 7475Al+0.7Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 260, 170-177	5.3	15
111	Characterization of the microstructures and the shape memory properties of the Fe-Mn-Si-Cr-Ni-C shape memory alloy after severe plastic deformation by differential speed rolling and subsequent annealing. <i>Materials Characterization</i> , 2018 , 136, 12-19	3.9	15
110	Hot compression behavior of the 1 wt% calcium containing Mg ₉₀ Al ₇ 0.5Zn (AZ80) alloy fabricated using electromagnetic casting technology. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 222-230	5.3	14
109	Analysis of deformation behavior in 3D during equal channel angular extrusion. <i>Journal of Materials Processing Technology</i> , 2006 , 176, 260-267	5.3	14
108	Comparison of Hot Deformation Behavior Characteristics Between As-Cast and Extruded Al-Zn-Mg-Cu (7075) Aluminum Alloys with a Similar Grain Size. <i>Materials</i> , 2019 , 12,	3.5	14
107	Constitutive modeling and understanding of the hot compressive deformation of Mg ₉₀ Al ₇ 0.5Zn0.0Y magnesium alloy with reduced number of strain-dependent constitutive parameters. <i>Metals and Materials International</i> , 2017 , 23, 660-672	2.4	13
106	The effect of volume fraction and dispersion of icosahedral phase particles on the strength and work hardening of Mg-Zn-Y alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 284-291	5.3	13

105	Operation of solute-drag creep in an AlCoCrFeMnNi high-entropy alloy and enhanced hot workability. <i>Journal of Alloys and Compounds</i> , 2020 , 824, 153829	5.7	13
104	Stress corrosion cracking of high-strength AZ31 processed by high-ratio differential speed rolling. <i>Journal of Magnesium and Alloys</i> , 2015 , 3, 271-282	8.8	13
103	Corrosion behavior of magnesium powder fabricated by high-energy ball milling and spark plasma sintering. <i>Metals and Materials International</i> , 2014 , 20, 1095-1101	2.4	13
102	A strategy for creating ultrafine-grained microstructure in magnesium alloy sheets. <i>Materials Letters</i> , 2010 , 64, 647-649	3.3	13
101	The effect of die geometry on the double shear extrusion by parametric FVM simulation. <i>Scripta Materialia</i> , 2004 , 51, 1117-1122	5.6	13
100	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg ₉₈ Mg ₂ Si composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141574	5.3	13
99	Enhancement of recovery stresses of the Ni-50.2Ti alloy by severe plastic deformation using a high-ratio differential speed rolling technique. <i>Scripta Materialia</i> , 2016 , 124, 95-98	5.6	13
98	Importance of diffusional creep in fine grained Mg ₉₈ Al ₁ Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 133-141	5.3	12
97	The significant effect of adding trace amounts of Ti on the high-temperature deformation behavior of fine-grained Mg ₉₈ Al ₁ Zn magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 352-358	5.7	12
96	Ductility enhancement through texture control and strength restoration through subsequent age-hardening in Mg ₉₈ Zn ₂ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 157-163	5.3	12
95	Molecular imprinting into organogel nanofibers. <i>Soft Matter</i> , 2011 , 7, 4160	3.6	12
94	Enhanced ductility and deformation mechanisms of ultrafine-grained Al ₉₈ Mg ₂ Bi alloy in sheet form at warm temperatures. <i>Scripta Materialia</i> , 2009 , 61, 125-128	5.6	12
93	Achieving Low Temperature Superplasticity from Ca-Containing Magnesium Alloy Sheets. <i>Advanced Engineering Materials</i> , 2009 , 11, 525-529	3.5	12
92	Retardation of grain growth in Mg ₉₈ Al ₁ Zn alloy processed by strip-casting method. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 106-109	5.7	12
91	Correlation between crystallization and strain hardening during homogeneous deformation of Cu ₅₄ Ni ₆ Zr ₂₂ Ti ₁₈ bulk metallic glass. <i>Intermetallics</i> , 2007 , 15, 282-287	3.5	12
90	Hot deformation behavior and processing map of a Sn _{0.5} CoCrFeMnNi high entropy alloy with dual phases. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140394	5.3	12
89	Effect of Ca and CaO on the microstructure and hot compressive deformation behavior of Mg _{99.5} Zn _{0.5} alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 146-156	5.3	11
88	Flame-resistant Ca-containing AZ31 magnesium alloy sheets with good mechanical properties fabricated by a combination of strip casting and high-ratio differential speed rolling methods. <i>Metals and Materials International</i> , 2015 , 21, 374-381	2.4	11

87	Explanation for deviations from the Hall-Petch Relation based on the creep behavior of an ultrafine-grained Mg-Li alloy with low diffusivity. <i>Scripta Materialia</i> , 2009 , 61, 652-655	5.6	11
86	High strain rate superplasticity of an ultra-fine grained Al-Ti-Fe alloy. <i>Scripta Materialia</i> , 1998 , 40, 223-228	3.6	11
85	High-strain-rate superplasticity of Zr65Al10Ni10Cu15 sheet fabricated by squeeze casting method. <i>Intermetallics</i> , 2006 , 14, 377-381	3.5	11
84	Variation of true strain-rate sensitivity exponent as a function of plastic strain in the PM processed superplastic 7475Al+0.7Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000 , 277, 134-142	5.3	11
83	Hot compression behavior of the ignition-resistant Mg ₉₂ Y ₂ Zn ₄ .2Ca alloy with long-period stacking ordered structures. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 417-428	5.7	10
82	Microstructure and Strengthening Mechanisms of Carbon Nanotube Reinforced Magnesium Matrix Composites Fabricated by Accumulative Roll Bonding. <i>Journal of Korean Institute of Metals and Materials</i> , 2014 , 52, 561-572	1	10
81	Microstructure and tensile properties of magnesium nanocomposites fabricated using magnesium chips and carbon black. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 860-872	8.8	10
80	Effect of L(Mg ₃ Y ₂ Zn ₆)-, W(Mg ₃ Y ₂ Zn ₃)- and LPSO(Mg ₁₂ Zn _Y)-phases on tensile work-hardening and fracture behaviors of rolled Mg ₉₂ Zn alloys. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2316-2325	5.5	9
79	Low temperature superplasticity of ultrafine grained Mg ₉₂ .25Zn ₄ .66Y alloy with an icosahedral quasicrystalline phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 643, 47-50	5.3	9
78	Construction of processing maps combined with deformation mechanism maps using creep deformation equations. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 13434-13449	5.5	9
77	Effect of Post-annealing and Strong Deformation Process on the Mechanical and Corrosion Properties of a Mg-Mn alloy for Biomedical Application. <i>Journal of the Korean Physical Society</i> , 2018 , 72, 692-698	0.6	9
76	Enhanced Hot Workability and Post-Hot Deformation Microstructure of the As-Cast Al-Zn-Cu-Mg Alloy Fabricated by Use of a High-Frequency Electromagnetic Casting with Electromagnetic Stirring. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017 , 48, 2502-2509	2.3	9
75	Superplastic behavior of a kappa carbide material (Fe ₃ AlC _x). <i>Journal of Materials Research</i> , 1997 , 12, 2317-2324	2.5	9
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