

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

212
papers

7,176
citations

42
h-index

78
g-index

231
ext. papers

8,026
ext. citations

4.4
avg, IF

6.5
L-index

#	Paper	IF	Citations
212	Class I type creep behavior of coarse-grained Al _{0.5} CoCrFeMnNi high entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 845, 143239	5.3	0
211	Uniaxial compressive cyclic behavior of mortar reinforced with crimped or dog-bone-shaped SMA fibers. <i>Composite Structures</i> , 2021 , 262, 113600	5.3	4
210	Austenite grain size effect on recovery stress and recovery strain of Fe-Mn-Si-Cr-Ni-0.01C alloy severely plastically deformed by differential speed rolling. <i>Materials Characterization</i> , 2021 , 175, 111097 ^{3.9}	7.9	1
209	Processing maps (with flow instability criterion based on power-law breakdown) integrated into finite element simulations for evaluating the hot workability of 7075 aluminum alloy. <i>Materials Today Communications</i> , 2021 , 27, 102254	2.5	0
208	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg ₂ Si composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 820, 141574	5.3	13
207	Calculation and construction of deformation mechanism maps and processing maps for CoCrFeMnNi and Al _{0.5} CoCrFeMnNi high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 869, 159256	5.7	6
206	Microstructure tailoring of Al _{0.5} CoCrFeMnNi to achieve high strength and high uniform strain using severe plastic deformation and an annealing treatment. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 228-240	9.1	9
205	Prestressing effect of embedded Fe-based SMA wire on the flexural behavior of mortar beams. <i>Engineering Structures</i> , 2021 , 227, 111472	4.7	8
204	Additive manufacturing of a porous titanium layer structure Ti on a CoCr alloy for manufacturing cementless implants. <i>Journal of Materials Research and Technology</i> , 2021 , 10, 250-267	5.5	5
203	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
202	Dynamic recrystallization and hot deformation mechanisms of a eutectic Al _{0.7} CoCrFeMnNi high-entropy alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159488	5.7	9
201	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
200	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
199	High-strain-rate solute drag creep in a Cu-22%Sn alloy (Cu ₁₇ Sn ₃) with near peritectic composition. <i>Materials Characterization</i> , 2020 , 164, 110325	3.9	4
198	Grain size and temperature effect on the tensile behavior and deformation mechanisms of non-equiatomic Fe ₄₁ Mn ₂₅ Ni ₂₄ Co ₈ Cr ₂ high entropy alloy. <i>Journal of Materials Science and Technology</i> , 2020 , 42, 190-202	9.1	7
197	Successful transition from low-temperature superplasticity to high-strain-rate superplasticity with increasing temperature in an ultrafine-grained Mg ₇₀ Zn ₃₀ alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 817, 153298	5.7	5
196	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

195	Examination of high-temperature mechanisms and behavior under compression and processing maps of pure copper. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 960-968	5.5	3
194	Achievement of nearly fully amorphous structure from NiTi alloys via differential speed rolling at 268K and effect of annealing on superelasticity. <i>Materials Characterization</i> , 2020 , 169, 110584	3.9	4
193	Strain hardening behavior and strengthening mechanism in Mg-rich AlMg binary alloys subjected to aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 794, 139862	5.3	7
192	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
191	Easy construction of processing maps for metallic alloys using a flow instability criterion based on power-law breakdown. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 5134-5143	5.5	6
190	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
189	Effect of I(Mg ₃ YZn ₆)-, W(Mg ₃ Y ₂ Zn ₃)- and LPSO(Mg ₁₂ ZnY)-phases on tensile work-hardening and fracture behaviors of rolled Mg ₇₀ Zn alloys. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 2316-2325	5.5	9
188	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
187	Fabrication of a thin open-cell Ni foam sheet with a high specific strength and moderate porosity using severe plastic deformation via differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 750, 7-13	5.3	3
186	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
185	Design of Mg-6wt%Al alloy with high toughness and corrosion resistance prepared by mechanical alloying and spark plasma sintering. <i>Materials Characterization</i> , 2019 , 158, 109995	3.9	4
184	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
183	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
182	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
181	Pronounced yield drop phenomenon at high temperatures in Al-Mg alloys with high contents of Mg (513 wt%). <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 743, 590-596	5.3	8
180	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
179	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
178	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

177	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
176	Warm Temperature Deformation Behavior and Processing Maps of 5182 and 7075 Aluminum Alloy Sheets with Fine Grains. <i>Metals and Materials International</i> , 2018 , 24, 455-463	2.4	8
175	Investigation of MRS and SMA Dampers Effects on Bridge Seismic Resistance Employing Analytical Models. <i>International Journal of Steel Structures</i> , 2018 , 18, 1325-1335	1.3	3
174	A Springback Prediction Model for Warm Forming of Aluminum Alloy Sheets Using Tangential Stresses on a Cross-Section of Sheet. <i>Metals</i> , 2018 , 8, 257	2.3	2
173	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
172	Microstructural Evolution and Electrochemical Properties of HRDSR AZ61- (= Ca, Ti) Alloys. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 6081-6089	1.3	4
171	Shape memory and superelasticity of nanograined Ti-51.2 at.% Ni alloy processed by severe plastic deformation via high-ratio differential speed rolling. <i>Materials Characterization</i> , 2018 , 145, 284-293	3.9	9
170	Characteristics and interrelation of recovery stress and recovery strain of an ultrafine-grained Ni-50.2Ti alloy processed by high-ratio differential speed rolling. <i>Smart Materials and Structures</i> , 2017 , 26, 035005	3.4	0
169	Constitutive modeling and understanding of the hot compressive deformation of Mg _{99.5} Zn _{0.5} Y _{0.01} magnesium alloy with reduced number of strain-dependent constitutive parameters. <i>Metals and Materials International</i> , 2017 , 23, 660-672	2.4	13
168	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
167	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
166	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
165	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
164	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, 2533-2536	2.3	9
163	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
162	Estimation of Fracture Toughness of Metallic Materials Using Instrumented Indentation: Critical Indentation Stress and Strain Model. <i>Experimental Mechanics</i> , 2017 , 57, 1013-1025	2.6	6
161	Accelerated Formation of an Ultrafine-Grained Microstructure in Closed-Cell Aluminum Foam after Extrusion and Differential Speed Rolling. <i>Materials Transactions</i> , 2017 , 58, 291-293	1.3	4
160	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

159	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	60
158	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
157	Biomechanics of Posterior Instrumentation for Spinal Arthrodesis 2016 , 437-467		2
156	Pedicle Screw Fixation in Thoracic or Thoracolumbar Burst Fractures 2016 , 405-427		2
155	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
154	The effect of 0.5 wt.% Ca addition on the hot compressive characteristics and processing maps of the cast and extruded Mg ₉ Al ₁ Zn alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 658, 157-169	5.7	19
153	Microstructure and superplasticity of the as-cast Mg ₉ Al ₁ 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
152	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
151	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
150	Low temperature superplasticity of ultrafine grained Mg ₉ .25Zn ₁ .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
149	Refinement of the icosahedral quasicrystalline phase and the grain size of Mg ₉ .25Zn ₁ .66Y alloy by high-ratio differential speed rolling. <i>Scripta Materialia</i> , 2015 , 103, 49-52	5.6	25
148	Hot compression characteristics and processing maps of a cast Mg ₉ .5Zn ₁ .0Y alloy with icosahedral quasicrystalline phase. <i>Journal of Alloys and Compounds</i> , 2015 , 644, 645-653	5.7	24
147	Development of biodegradable Mg-Ca alloy sheets with enhanced strength and corrosion properties through the refinement and uniform dispersion of the Mg ₁₂ Ca phase by high-ratio differential speed rolling. <i>Acta Biomaterialia</i> , 2015 , 11, 531-42	10.8	91
146	Effect of Ca and CaO on the microstructure and hot compressive deformation behavior of Mg ₉ .5Zn ₁ .0Y alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 648, 146-156	5.3	11
145	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
144	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
143	Hot compression behavior of the ignition-resistant Mg ₉ Y ₂ .5Zn ₁ .2Ca alloy with long-period stacking ordered structures. <i>Journal of Alloys and Compounds</i> , 2015 , 632, 417-428	5.7	10
142	Two different types of deformation behaviors in ultrafine grained Mg alloys at high temperatures and development of the generalized constitutive equation for describing their deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 264-279	5.3	4

141	Verification on the extreme scalability of STT-MRAM without loss of thermal stability below 15 nm MTJ cell 2014 ,		17
140	Significant effects of adding trace amounts of Ti on the microstructure and corrosion properties of Mg ₉₇ Al ₁ Zn magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 614, 49-55	5.7	33
139	Annealing effects on the corrosion resistance of ultrafine-grained pure titanium. <i>Corrosion Science</i> , 2014 , 89, 331-337	6.8	61
138	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
137	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
136	Enhancement of mechanical properties and corrosion resistance of Mg ₉₈ Ca alloys through microstructural refinement by indirect extrusion. <i>Corrosion Science</i> , 2014 , 82, 392-403	6.8	147
135	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
134	Fabrication of ultrafine-grained Mg ₉₇ Al ₁ 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
133	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
132	The significant effect of adding trace amounts of Ti on the high-temperature deformation behavior of fine-grained Mg ₉₇ Al ₁ Zn magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 352-358	5.7	12
131	Hot compression behavior of the 1 wt% calcium containing Mg ₉₇ Al ₁ 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
130	Ductility enhancement through texture control and strength restoration through subsequent age-hardening in Mg ₉₇ Zn ₂ r alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 157-163	5.3	12
129	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
128	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
127	Importance of diffusional creep in fine grained Mg ₉₇ Al ₁ Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 580, 133-141	5.3	12
126	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
125	Enhanced corrosion resistance of ultrafine-grained AZ61 alloy containing very fine particles of Mg ₁₇ Al ₁₂ phase. <i>Corrosion Science</i> , 2013 , 75, 228-238	6.8	77
124	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

123	Enhanced corrosion resistance of high strength Mg ₉₇ Al ₁ Zn alloy sheets with ultrafine grains in a phosphate-buffered saline solution. <i>Corrosion Science</i> , 2013 , 74, 139-148	6.8	37
122	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
121	Enhanced superplasticity and diffusional creep in ultrafine-grained Mg ₉₇ Al ₁ Zn alloy with high thermal stability. <i>Scripta Materialia</i> , 2013 , 68, 179-182	5.6	21
120	Formation of a nanocomposite-like microstructure in Mg ₉₇ Al ₁ Zn alloy. <i>Scripta Materialia</i> , 2012 , 66, 590-593	5.6	22
119	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
118	Ultrafine-grained Mg ₉₇ Zn ₃ 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
117	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
116	Molecular imprinting into organogel nanofibers. <i>Soft Matter</i> , 2011 , 7, 4160	3.6	12
115	Effect of speed-ratio on microstructure, and mechanical properties of Mg ₉₇ Al ₁ Zn alloy, in differential speed rolling. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8510-8517	5.7	55
114	Thickness reduction effect in obtaining ultrafine-grained microstructure from oxygen-free copper using high-ratio differential speed rolling. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1472-5	1.3	1
113	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
112	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
111	Exceptionally high strength in Mg ₉₇ Al ₁ Zn alloy processed by high-ratio differential speed rolling. <i>Scripta Materialia</i> , 2011 , 65, 1105-1108	5.6	55
110	High-strength Mg ₉₇ Al ₁ Zn alloy with ultrafine grain size sensitive to strain rate. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2062-2066	5.3	26
109	Texture and mechanical properties of ultrafine-grained Mg ₉₇ Al ₁ 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
108	Fabrication and evaluation of nanostructure Al-SiCp composite by accumulative roll-bonding. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 7451-5	1.3	
107	OS19-3-1 Benefits of having ultrafine grains in Mg alloys. <i>The Abstracts of ATEM International Conference on Advanced Technology in Experimental Mechanics Asian Conference on Experimental Mechanics</i> , 2011 , 2011.10, _OS19-3-1-	0	
106	Continuous Casting of Magnesium Alloy Billet Using Electromagnetic Techniques. <i>Materials Science Forum</i> , 2010 , 654-656, 787-790	0.4	

105	Enhanced superplasticity of 1 wt.%Ca-AZ80 Mg alloy with ultrafine grains. <i>Materials Letters</i> , 2010 , 64, 1759-1762	3.3	5
104	Factors influencing tensile ductility of ultrafine-grained Mg ₉₇ Al ₂ Zn alloy sheet at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 5984-5989	5.3	5
103	Hot-air forming of Al-Mg-Cr alloy and prediction of failure based on Zener-Holloman parameter. <i>Metals and Materials International</i> , 2010 , 16, 895-903	2.4	7
102	A strategy for creating ultrafine-grained microstructure in magnesium alloy sheets. <i>Materials Letters</i> , 2010 , 64, 647-649	3.3	13
101	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
100	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
99	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
98	Grain size and texture control of Mg ₉₇ Al ₂ 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
97	Enhanced ductility and deformation mechanisms of ultrafine-grained Al ₉₀ Mg ₈ Bi alloy in sheet form at warm temperatures. <i>Scripta Materialia</i> , 2009 , 61, 125-128	5.6	12
96	Explanation for deviations from the Hall-Petch Relation based on the creep behavior of an ultrafine-grained Mg ₉₉ alloy with low diffusivity. <i>Scripta Materialia</i> , 2009 , 61, 652-655	5.6	11
95	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
94	Achieving Low Temperature Superplasticity from Ca-Containing Magnesium Alloy Sheets. <i>Advanced Engineering Materials</i> , 2009 , 11, 525-529	3.5	12
93	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
92	Microstructures and mechanical properties of Mg ₉₇ Al ₂ Zn ₁ Ca alloys fabricated by high frequency electromagnetic casting method. <i>Journal of Materials Science</i> , 2009 , 44, 47-54	4.3	40
91	Preparation of smectic layered polymer networks using diene chain liquid crystalline polymers having latent reactive monomeric units. <i>Macromolecular Research</i> , 2009 , 17, 84-90	1.9	2
90	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
89	Synthesis of ultra high strength Al ₉₀ Mg ₈ Bi 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
88	Ultrafine-grained Mg ₉₇ Li ₂ Zn 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

87	Forging of Mg ₉ Al ₁ Zn ₁ Ca alloy prepared by high-frequency electromagnetic casting. <i>Materials & Design</i> , 2009 , 30, 4120-4125		15
86	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
85	Micro-forming of Zr ₆₅ Al ₁₀ Ni ₁₀ Cu ₁₅ metallic glasses under superplastic condition. <i>Journal of Alloys and Compounds</i> , 2009 , 483, 283-285	5.7	8
84	Retardation of grain growth in Mg ₉ Al ₁ Zn alloy processed by strip-casting method. <i>Journal of Alloys and Compounds</i> , 2009 , 482, 106-109	5.7	12
83	On Coble creep in Mg ₉ Al ₁ Zn alloy with ultrafine-grained microstructure. <i>Scripta Materialia</i> , 2008 , 58, 659-662	5.6	8
82	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	9.6	25
81	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
80	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
79	Superplasticity and superplastic forming of Mg ₉ Al ₁ Zn alloy sheets fabricated by strip casting method. <i>Journal of Alloys and Compounds</i> , 2008 , 464, 197-204	5.7	21
78	Experimental Study of Thermally Activated Magnetization Reversal With a Spin-Transfer Torque in a Nanowire. <i>IEEE Transactions on Magnetics</i> , 2008 , 44, 2531-2534	2	
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