

Mingyi Zheng

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.

181
papers

6,907
citations

50
h-index

69
g-index

183
ext. papers

8,114
ext. citations

4.9
avg, IF

5.95
L-index

#	Paper	IF	Citations
181	Improved strength in wrought Mg-Ni alloys by adjusting the block-shaped LPSO phase and plate-shaped β phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142198	5.3	3
180	Combining gradient structure and supersaturated solid solution to achieve superior mechanical properties in WE43 magnesium alloy. <i>Journal of Materials Science and Technology</i> , 2022 , 99, 223-238	9.1	5
179	Influence of grain size on microstructure, mechanical properties and strain hardening behavior of Mg-0.3Ca (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 839, 142847	5.3	0
178	In-situ synchrotron diffraction study on compressive deformation behavior of Mg ₉₂ Y ₅ Ni ₃ alloy mostly composed of LPSO. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 143292	5.3	0
177	Anisotropy in tensile behavior of an extruded Mg-4.50Zn-1.13Ca (wt.%) alloy. <i>International Journal of Materials Research</i> , 2021 , 112, 787-793	0.5	
176	Role of extrusion rate on the microstructure and tensile properties evolution of ultrahigh-strength low-alloy Mg-1.0Al-1.0Ca-0.4Mn (wt.%) alloy. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	3
175	Achieving an ultra-high strength and moderate ductility in Mg-Cd-Zn-Zr alloy via a decreased-temperature multi-directional forging. <i>Materials Characterization</i> , 2021 , 171, 110804	3.9	10
174	Effect of forced-air cooling on the microstructure and age-hardening response of extruded Mg-Gd-Y-Zn-Zr alloy full with LPSO lamella. <i>Journal of Materials Science and Technology</i> , 2021 , 73, 66-75	9.1	11
173	Simultaneously Enhanced Mechanical Properties and Damping Capacities of ZK60 Mg Alloys Processed by Multi-Directional Forging. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 265-277	2.5	3
172	Enhanced strength by precipitate modification in wrought Mg-Al-Ca alloy with trace Mn addition. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 154689	5.7	12
171	Texture and Lattice Strain Evolution during Tensile Loading of Mg-Zn Alloys Measured by Synchrotron Diffraction. <i>Metals</i> , 2020 , 10, 124	2.3	2
170	Effect of nano-precipitation on thermal conductivity and mechanical properties of Mg-2Mn-xLa alloys during hot extrusion. <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154570	5.7	8
169	Ultrahigh strength Mg-Y-Ni alloys obtained by regulating second phases. <i>Journal of Materials Science and Technology</i> , 2020 , 45, 117-124	9.1	8
168	High strength and excellent ductility of dilute Mg-0.68Al-0.32Ca-0.50Mn (wt%) extrusion alloy obtained by T6 treatment. <i>Materials Characterization</i> , 2020 , 162, 110197	3.9	15
167	Development of high-performance Mg ₉₂ Zn ₁ Ca ₁ Mn alloy via an extrusion process at relatively low temperature. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153942	5.7	14
166	Development of a high-strength Mg alloy with superior ductility through a unique texture modification from equal channel angular pressing. <i>Journal of Magnesium and Alloys</i> , 2020 ,	8.8	12
165	Tension-compression asymmetry of extruded Mg-Gd-Y-Zr alloy with a bimodal microstructure studied by in-situ synchrotron diffraction. <i>Materials and Design</i> , 2019 , 170, 107705	8.1	32

164	Effect of trace zinc on the microstructure and mechanical properties of extruded Mg-Gd-Y-Zr alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 789, 416-427	5.7	15
163	The origin of discontinuous yielding in Mg alloys under slip-dominated condition studied by in-situ synchrotron diffraction and elastic-viscoplastic self-consistent modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 562-568	5.3	3
162	Ultrahigh strength Mg-Al-Ca-Mn extrusion alloys with various aluminum contents. <i>Journal of Alloys and Compounds</i> , 2019 , 792, 130-141	5.7	40
161	Effect of La content on microstructure, thermal conductivity and mechanical properties of Mg-Al magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 71-78	5.7	17
160	Ultra-fine grained Mg-Zn-Ca-Mn alloy with simultaneously improved strength and ductility processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2019 , 785, 410-421	5.7	36
159	Microstructure modification and resultant mechanical properties of Mg ₉₅ Zn ₄ .5Ca (wt%) alloy through hot extrusion. <i>Journal of Materials Research</i> , 2018 , 33, 1003-1010	2.5	4
158	Comparison of microstructure and mechanical properties of Mg-Zn microalloyed with Ca or Ce. <i>Vacuum</i> , 2018 , 151, 221-225	3.7	22
157	Altered ageing behaviour of a nanostructured Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy processed by high pressure torsion. <i>Acta Materialia</i> , 2018 , 151, 260-270	8.4	79
156	In vitro and in vivo studies on as-extruded Mg- 5.25wt.%Zn-0.6wt.%Ca alloy as biodegradable metal. <i>Science China Materials</i> , 2018 , 61, 619-628	7.1	15
155	Deformation Behavior of Ultra-Strong and Ductile Mg-Gd-Y-Zn-Zr Alloy with Bimodal Microstructure. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1931-1947	2.3	77
154	Influence of size and distribution of W phase on strength and ductility of high strength Mg-5.1Zn-3.2Y-0.4Zr-0.4Ca alloy processed by indirect extrusion. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 277-283	9.1	33
153	The partial substitution of Y with Gd on microstructures and mechanical properties of as-cast and as-extruded Mg-10Zn-6Y-0.5Zr alloy. <i>Materials Characterization</i> , 2018 , 135, 96-103	3.9	9
152	Deformation-Induced Dynamic Precipitation and Resulting Microstructure in a Mg ₉₅ Zn ₄ Ca Alloy. <i>Jom</i> , 2018 , 70, 1611-1615	2.1	7
151	Exceptional grain refinement in a Mg alloy during high pressure torsion due to rare earth containing nanosized precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 728, 115-123	5.3	36
150	Achieving ultra-high hardness of nanostructured Mg-8.2Gd-3.2Y-1.0Zn-0.4Zr alloy produced by a combination of high pressure torsion and ageing treatment. <i>Scripta Materialia</i> , 2018 , 155, 21-25	5.6	39
149	Microstructure and texture evolution of deformed Mg-Zn alloy during recrystallization. <i>Materials Characterization</i> , 2018 , 145, 501-506	3.9	20
148	Evolution of long-period stacking ordered structure and hardness of Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy during processing by high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 738, 238-252	5.3	19
147	Effect of extrusion parameters on microstructure and mechanical properties of Mg-7.5Gd-2.5Y-3.5Zn-0.9Ca-0.4Zr (wt%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 685, 159-167	5.3	46

146	Development of Ultra-High Strength and Ductile Mg _{8.2} Gd _{3.8} Y _{1.0} Zn _{0.4} Zr Alloys by Extrusion with Forced Air Cooling. <i>Minerals, Metals and Materials Series</i> , 2017 , 23-28	0.3	
145	Effect of LPSO and SFs on microstructure evolution and mechanical properties of Mg-Gd-Y-Zn-Zr alloy. <i>Scientific Reports</i> , 2017 , 7, 40846	4.9	82
144	Ageing behavior of extruded Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr (wt.%) alloy containing LPSO phase and β precipitates. <i>Scientific Reports</i> , 2017 , 7, 43391	4.9	50
143	Strength and Ductility Balance on an Extruded Mg _{8.2} Gd _{3.8} Y _{1.0} Zn _{0.4} Zr Alloy. <i>Advanced Engineering Materials</i> , 2017 , 19, 1600842	3.5	4
142	Evolution of microstructure and mechanical properties of an as-cast Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr alloy processed by high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 700, 312-320	5.3	22
141	Hot compression deformation behavior of Mg-9Gd-2.9Y-1.9Zn-0.4Zr-0.2Ca (wt%) alloy. <i>Materials Characterization</i> , 2017 , 124, 40-49	3.9	43
140	Ageing behavior of as-cast SiCp/AZ91 Mg matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 491-500	5.3	42
139	Microstructure and mechanical properties of a nanostructured Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr supersaturated solid solution prepared by high pressure torsion. <i>Materials and Design</i> , 2017 , 135, 366-376	8.1	37
138	Enhancing the Strength and Ductility in Mg _{8.2} Gd _{3.8} Y _{1.0} Zn _{0.4} Zr Alloy through Achieving High Density Precipitates and Texture Weakening. <i>Advanced Engineering Materials</i> , 2017 , 19, 1700487	3.5	5
137	Microstructure and mechanical properties of WE43 magnesium alloy fabricated by direct-chill casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 158-164	5.3	54
136	Effects of hot rolling on microstructure, macrotexture and mechanical properties of pre-extruded AZ31/SiC nanocomposite sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 683, 15-23	5.3	18
135	Effect of Ca/Al ratio on microstructure and mechanical properties of Mg-Al-Ca-Mn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 423-432	5.3	60
134	Effect of La addition on the microstructure and mechanical properties of Mg β wt% Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 673, 47-54	5.3	29
133	Ultrahigh strength as-extruded Mg _{10.3} Zn _{6.4} Y _{0.4} Zr _{0.5} Ca alloy containing W phase. <i>Materials and Design</i> , 2016 , 108, 391-399	8.1	61
132	Intermetallics formed at interface of ultrafine grained Al/Mg bi-layered disks processed by high pressure torsion at room temperature. <i>Materials Letters</i> , 2016 , 181, 187-190	3.3	33
131	Improving microstructure and mechanical properties in Mg β mass% Zn alloys by combined addition of Ca and Ce. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 656, 67-74	5.3	37
130	Evolution of microstructure, texture and mechanical properties of SiC/AZ31 nanocomposite during hot rolling process. <i>Materials and Design</i> , 2016 , 93, 194-202	8.1	31
129	Graphene nanoplatelets induced heterogeneous bimodal structural magnesium matrix composites with enhanced mechanical properties. <i>Scientific Reports</i> , 2016 , 6, 38824	4.9	91

128	Effect of microalloying with Ca on the microstructure and mechanical properties of Mg-6 mass%Zn alloys. <i>Materials and Design</i> , 2016 , 98, 285-293	8.1	86
127	Processing, Microstructure and Mechanical Properties of Ti6Al4V Particles-Reinforced Mg Matrix Composites. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016 , 29, 940-950	2.5	10
126	Microstructure evolution and mechanical properties of nano-SiCp/AZ91 composite processed by extrusion and equal channel angular pressing (ECAP). <i>Materials Characterization</i> , 2016 , 121, 222-230	3.9	55
125	Development of high-strength, low-cost wrought Mg $\bar{2}$.5mass% Zn alloy through micro-alloying with Ca and La. <i>Materials and Design</i> , 2015 , 85, 549-557	8.1	68
124	Microstructure and tensile properties of SiC nanoparticles reinforced magnesium matrix composite prepared by multidirectional forging under decreasing temperature conditions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 639, 465-473	5.3	20
123	Influence of deformation rate on microstructure, texture and mechanical properties of indirect-extruded Mg $\bar{2}$ nCa alloy. <i>Materials Characterization</i> , 2015 , 104, 66-72	3.9	52
122	Significantly improved strength and ductility in bimodal-size grained microstructural magnesium matrix composites reinforced by bimodal sized SiCp over traditional magnesium matrix composites. <i>Composites Science and Technology</i> , 2015 , 118, 85-93	8.6	41
121	Microstructure and mechanical properties of magnesium matrix composite reinforced with carbon nanotubes by ultrasonic vibration. <i>Rare Metals</i> , 2015 , 1	5.5	4
120	Improving strength and ductility of Mg $\bar{0}$.d $\bar{2}$ nZr alloy simultaneously via extrusion, hot rolling and ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 643, 137-141	5.3	72
119	Thermal conductivity of as-cast and as-extruded binary Mg $\bar{2}$ n alloys. <i>Journal of Alloys and Compounds</i> , 2015 , 621, 250-255	5.7	55
118	Multidirectional forging of AZ91 magnesium alloy and its effects on microstructures and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 624, 157-168	5.3	57
117	Microstructures and mechanical properties of SiCp/AZ91 magnesium matrix nanocomposites processed by multidirectional forging. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 1018-1026	5.7	34
116	The microstructure, texture and mechanical properties of extruded Mg $\bar{5}$.3Zn $\bar{0}$.2Ca $\bar{0}$.5Ce (wt%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 620, 164-171	5.3	83
115	Microstructure and room temperature tensile properties of 1 $\bar{1}$ h-SiCp/AZ31B magnesium matrix composite. <i>Journal of Magnesium and Alloys</i> , 2015 , 3, 155-161	8.8	17
114	Reducing the tension-compression yield asymmetry of extruded Mg $\bar{2}$ nCa alloy via equal channel angular pressing. <i>Journal of Magnesium and Alloys</i> , 2015 , 3, 302-308	8.8	40
113	Study on distribution of long-period stacking ordered phase in Mg $\bar{0}$.d $\bar{2}$ nZr alloy using friction stir processing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 626, 275-285	5.3	21
112	Microstructure and strengthening mechanism of carbon nanotubes reinforced magnesium matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 597, 264-269	5.3	80
111	Effect of solidification on microstructures and mechanical properties of carbon nanotubes reinforced magnesium matrix composite. <i>Materials & Design</i> , 2014 , 58, 204-208		40

110	Fabrication of bimodal size SiCp reinforced AZ31B magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 601, 58-64	5.3	36
109	Effect of submicron size SiC particles on microstructure and mechanical properties of AZ31B magnesium matrix composites. <i>Materials & Design</i> , 2014 , 54, 436-442		45
108	Hardening mechanism of commercially pure Mg processed by high pressure torsion at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 95-106	5.3	50
107	Microstructures and mechanical properties of AZ91 magnesium alloy processed by multidirectional forging under decreasing temperature conditions. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 979-987	5.7	36
106	Low-temperature electrical resistivity and thermal conductivity of binary magnesium alloys. <i>Acta Materialia</i> , 2014 , 80, 288-295	8.4	48
105	Distribution and integrity of carbon nanotubes in carbon nanotube/magnesium composites. <i>Journal of Alloys and Compounds</i> , 2014 , 612, 330-336	5.7	44
104	Thermal conductivity of as-cast and as-extruded binary Mg/Al alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 608, 19-24	5.7	59
103	Mechanical spectroscopy of Al-Mg alloys. <i>Physics of Metals and Metallography</i> , 2013 , 114, 327-338	1.2	10
102	Effect of extrusion ratio on microstructure, texture and mechanical properties of indirectly extruded Mg ₇₀ Zn ₁₀ Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 569, 48-53	5.3	58
101	Effect of ageing treatment on the microstructure, texture and mechanical properties of extruded Mg _{82.2} Gd _{8.8} Y ₇ Zn _{0.4} Zr (wt%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 565, 112-117	5.3	37
100	Exceptional high-strain-rate superplasticity in Mg ₉₀ Gd ₅ Y ₂ Zn ₃ Zr alloy with long-period stacking ordered phase. <i>Scripta Materialia</i> , 2013 , 69, 801-804	5.6	54
99	Effect of heat treatment on internal friction in ECAP processed commercial pure Mg. <i>Journal of Alloys and Compounds</i> , 2013 , 549, 38-45	5.7	30
98	Effect of ageing treatment on the precipitation behaviour of Mg ₉₀ Gd ₅ Y ₂ Zn ₃ Zr alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 50-56	5.7	45
97	Effect of grain size on cyclic microplasticity of ECAP processed commercial pure magnesium. <i>Journal of Materials Science</i> , 2013 , 48, 1239-1248	4.3	3
96	Effect of bimodal size SiC particulates on microstructure and mechanical properties of AZ31B magnesium matrix composites. <i>Materials & Design</i> , 2013 , 52, 1011-1017		49
95	Microstructures and mechanical properties of as-cast and as-extruded Mg-4.50Zn-1.13Ca (wt%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 6-13	5.3	57
94	The effect of double extrusion on the microstructure and mechanical properties of Mg ₇₀ Zn ₁₀ Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 583, 69-77	5.3	50
93	Texture Evolution of the Mg/Al Laminated Composite by Accumulative Roll Bonding at Ambient Temperature. <i>Rare Metal Materials and Engineering</i> , 2013 , 42, 441-446		11

92	Microstructure and mechanical properties of Mg ₉₂ Ni ₈ Ca _{0.2} alloy processed by semi-continuous casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 134-139	5-3	24
91	Compressive deformation behavior of Mg ₉₂ Ni ₈ alloy at elevated temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 71-77	5-3	6
90	Formation of long-period stacking ordered phase only within grains in Mg ₉₂ Ni ₈ Zr casting by friction stir processing. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 585-589	5-7	41
89	Microstructure evolutions of SiCp/AZ91 Mg matrix composites during hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 139-146	5-3	18
88	Effect of final rolling reduction on the microstructure and mechanical properties of Mg ₉₂ Ni ₈ Zr alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 232-240	5-3	38
87	Effect of cooling rate on the microstructure evolution and mechanical properties of homogenized Mg ₉₂ Ni ₈ Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 364-370	5-3	51
86	Influence of rolling temperature on the microstructure and mechanical properties of Mg ₉₂ Ni ₈ Zr alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 615-622	5-3	42
85	Microstructure and mechanical properties of Mg ₉₂ Ni ₈ Zr alloy sheets processed by combined processes of extrusion, hot rolling and ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 844-851	5-3	38
84	Dynamic recrystallization behavior during hot deformation and mechanical properties of 0.2% SiCp reinforced Mg matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 560, 824-830	5-3	46
83	Internal friction and microplastic deformation behavior of pure magnesium processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 100-108	5-3	25
82	Influence of extrusion temperature and process parameter on microstructures and tensile properties of a particulate reinforced magnesium matrix nanocomposite. <i>Materials & Design</i> , 2012 , 36, 199-205		42
81	Microstructure and elevated tensile properties of submicron SiCp/AZ91 magnesium matrix composite. <i>Materials & Design</i> , 2012 , 38, 110-114		32
80	Microstructure and mechanical properties of SiCp/MgZnCa composites fabricated by stir casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 534, 60-67	5-3	29
79	Development of SiCp/AZ91 magnesium matrix nanocomposites using ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 540, 123-129	5-3	73
78	Dynamic recrystallization behavior of particle reinforced Mg matrix composites fabricated by stir casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 545, 38-43	5-3	48
77	Microstructure and mechanical properties of the Mg/Al multilayer fabricated by accumulative roll bonding (ARB) at ambient temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 543, 249-256	5-3	82
76	Ultra high-strength Mg ₉₂ Ni ₈ Zr alloy sheets processed by large-strain hot rolling and ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 547, 93-98	5-3	161
75	The microstructural evolution and superplastic behavior at low temperatures of Mg ₉₂ Y _{0.92} Zr _{0.16} (wt.%) alloys after hot extrusion and ECAP process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 60-68	5-3	31

74	Microstructure and mechanical properties of the Mg ₉₇ Ca ₂ Zn alloy fabricated by semi-continuous casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 549, 128-135	5-3	46
73	Fabrication of SiC particles-reinforced magnesium matrix composite by ultrasonic vibration. <i>Journal of Materials Science</i> , 2012 , 47, 138-144	4-3	24
72	Effect of hot extrusion on microstructures and mechanical properties of SiC nanoparticles reinforced magnesium matrix composite. <i>Journal of Alloys and Compounds</i> , 2012 , 512, 355-360	5-7	81
71	Microstructures and mechanical properties of high-strength Mg ₉₇ Ca ₂ Zn alloy sheets processed by severe hot rolling. <i>Journal of Alloys and Compounds</i> , 2012 , 524, 46-52	5-7	83
70	Microstructure and mechanical properties of rolled sheets of Mg ₉₇ Ca ₂ Zn alloy: As-cast versus as-homogenized. <i>Journal of Alloys and Compounds</i> , 2012 , 528, 40-44	5-7	29
69	Influence of secondary extrusion on microstructures and mechanical properties of ZK60 Mg alloy processed by extrusion and ECAP. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1896-1903	3-3	17
68	Low frequency damping capacities of commercial pure magnesium. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1907-1911	3-3	10
67	Hot extrusion of SiCp/AZ91 Mg matrix composites. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1912-1917	3-3	30
66	Improved mechanical property and internal friction of pure Mg processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 556, 588-594	5-3	54
65	Processing, microstructure and mechanical properties of magnesium matrix nanocomposites fabricated by semisolid stirring assisted ultrasonic vibration. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 8664-8669	5-7	95
64	Improvement of Strength and Ductility of Mg-Zn-Ca-Mn Alloy by Equal Channel Angular Pressing 2011 , 195-198		
63	Microstructure and tensile properties of micro-SiC particles reinforced magnesium matrix composites produced by semisolid stirring assisted ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 8709-8714	5-3	56
62	Isothermal forging of AZ91 reinforced with 10vol.% silicon carbon particles. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1707-1712	5-3	50
61	Effect of Mn addition on microstructure, texture and mechanical properties of Mg ₉₇ Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3741-3747	5-3	78
60	Microstructure and mechanical properties of SiC nanoparticles reinforced magnesium matrix composites fabricated by ultrasonic vibration. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 5278-5282	5-3	101
59	Influences of extrusion parameters on microstructure and mechanical properties of particulate reinforced magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6387-6392	5-3	46
58	Effect of multidirectional forging on microstructures and tensile properties of a particulate reinforced magnesium matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7133-7139	5-3	29
57	Effect of ultrasonic vibration and solution heat treatment on microstructures and tensile properties of AZ91 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7484-7487	5-3	31

56	Dynamic microstructural changes during hot extrusion and mechanical properties of a Mg _{5.0} Zn _{0.9} Y _{0.16} Zr (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 4055-4067	5.3	112
55	Textures in Multi-Directional Forged Mg by Neutron Diffraction. <i>Advanced Materials Research</i> , 2010 , 146-147, 879-882	0.5	1
54	Effect of Texture on Damping Behaviour in an AZ80 Alloy. <i>Solid State Phenomena</i> , 2010 , 160, 117-121	0.4	1
53	Microstructure and Mechanical Properties of Extruded Mg-Zn-Ca Alloy. <i>Materials Science Forum</i> , 2010 , 654-656, 703-706	0.4	2
52	Microstructure and Properties of Pure Mg/ZK60 Laminate Processed by Accumulative Roll Bonding. <i>Materials Science Forum</i> , 2010 , 650, 343-346	0.4	2
51	Effect of submicron size SiC particulates on microstructure and mechanical properties of AZ91 magnesium matrix composites. <i>Journal of Alloys and Compounds</i> , 2010 , 504, 542-547	5.7	125
50	Effect of extrusion temperature on microstructures and damping capacities of Grp/AZ91 composite. <i>Journal of Alloys and Compounds</i> , 2010 , 506, 688-692	5.7	30
49	Effect of small tensile deformation on damping capacities of Mg-1%Al alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, s444-s447	3.3	9
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44	Microstructure and mechanical properties of the accumulative roll bonded (ARBed) pure magnesium sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 7176-7183	5.3	38
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41	Damping capacities and microstructures of magnesium matrix composites reinforced by graphite particles. <i>Materials & Design</i> , 2010 , 31, 4862-4865		29
40	Microstructure evolution and mechanical properties of a particulate reinforced magnesium matrix composites forged at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1630-1635	5.3	71
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32	Microstructure and mechanical properties of Mg ₉₂ Ni ₈ alloy processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 289-294	5.3	63
31	Microstructure and tensile property of the ECAPed pure magnesium. <i>Journal of Alloys and Compounds</i> , 2009 , 470, 256-262	5.7	80
30	Damping behavior and mechanical properties of Mg-Cu-Mn alloy processed by equal channel angular pressing. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, s33-s38	3.3	14
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28	Texture Gradient in a Single Pass ECAPed Pure Mg by Neutron Radiation. <i>Materials Science Forum</i> , 2008 , 584-586, 513-517	0.4	1
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25	Compressive deformation of Mg ₉₂ Ni ₈ Zr alloy processed by equal channel angular pressing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 564-567	5.3	44
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19	Effect of hot extrusion on the microstructure of a particulate reinforced magnesium matrix composite. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 465, 78-84	5.3	66
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14	Microarc oxidation coating formed on SiCw/AZ91 magnesium matrix composite and its corrosion resistance. <i>Materials Letters</i> , 2005 , 59, 1727-1731	3.3	69
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12	In-situ quasicrystal-reinforced magnesium matrix composite processed by equal channel angular extrusion (ECAE). <i>Journal of Materials Science</i> , 2005 , 40, 2587-2590	4.3	38
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