

Shigeharu Kamado

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.

206 papers	9,856 citations	57 h-index	91 g-index
223 ext. papers	11,528 ext. citations	3.9 avg, IF	6.35 L-index

#	Paper	IF	Citations
206	Effects of La Addition on the Microstructure, Thermal Conductivity and Mechanical Properties of Mg-3Al-0.3Mn Alloys.. <i>Materials</i> , 2022 , 15,	3.5	1
205	Development of corrosion-resistant Mg-Al-Ca-Mn-Zn alloy sheet with good tensile properties and stretch formability. <i>Journal of Alloys and Compounds</i> , 2022 , 164752	5.7	3
204	Effect of annealing on microstructure evolution and age-hardening behavior of dilute MgAlCaMn alloy. <i>Journal of Materials Research and Technology</i> , 2022 , 18, 1754-1762	5.5	0
203	Effect of extrusion ratio and temperature on microstructures and tensile properties of extruded Mg-Gd-Y-Mn-Sc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 800, 140330	5.3	10
202	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
201	Improving room-temperature stretch formability of a high-alloyed MgAlCaMn alloy sheet by a high-temperature solution-treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140399	5.3	13
200	Effect of aluminum content on stress corrosion cracking of AM60B and AZ91D magnesium alloy ingots. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2021 , 71, 60-67	0.3	
199	Development of high-performance MgZnCaMn alloy via an extrusion process at relatively low temperature. <i>Journal of Alloys and Compounds</i> , 2020 , 825, 153942	5.7	14
198	Effects of Zn Additions on the Room Temperature Formability and Strength in Mg1.2Al0.5Ca0.4Mn Alloy Sheets. <i>Minerals, Metals and Materials Series</i> , 2020 , 105-111	0.3	
197	New MgAl based alloy sheet with good room-temperature stretch formability and tensile properties. <i>Scripta Materialia</i> , 2020 , 180, 16-22	5.6	20
196	Improving tensile properties of a room-temperature formable and heat-treatable Mg3Zn-0.2Ca (wt.%) alloy sheet via micro-alloying of Al and Mn. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 772, 138690	5.3	11
195	Quasi-in-situ observing the rare earth texture evolution in an extruded Mg-Zn-Gd alloy with bimodal microstructure. <i>Journal of Magnesium and Alloys</i> , 2020 ,	8.8	10
194	Role of Zn on the room temperature formability and strength in MgAlCaMn sheet alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 156347	5.7	19
193	Origins of high strength and ductility combination in a Guinier-Preston zone containing Mg-Al-Ca-Mn alloy. <i>Scripta Materialia</i> , 2019 , 163, 121-124	5.6	18
192	Effects of extrusion ratio and temperature on the mechanical properties and microstructure of as-extruded Mg-Gd-Y-(Nd/Zn)-Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138080	5.3	26
191	Unexpected influence of prismatic plate-shaped precipitates on strengths and yield anisotropy in an extruded Mg-0.3Ca-1.0In-0.1Al-0.2Mn (at.%) alloy. <i>Scripta Materialia</i> , 2019 , 169, 70-75	5.6	14
190	Enhancing strength and creep resistance of MgCdZnZr alloy by substituting Mn for Zr. <i>Journal of Magnesium and Alloys</i> , 2019 , 7, 388-399	8.8	42

189	Determining the strength of GP zones in Mg alloy AXM10304, both parallel and perpendicular to the zone. <i>Acta Materialia</i> , 2019 , 171, 231-239	8.4	11
188	Microstructure and mechanical properties of extruded Mg ₉₅ Al ₅ Zn alloy with Mn or Zr addition. <i>Journal of Materials Science</i> , 2019 , 54, 10473-10488	4.3	12
187	Role of Ga on the high coercivity of Nd-rich Ga-doped Nd-Fe-B sintered magnet. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 750-759	5.7	31
186	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
185	Effect of Partially Substituting Ca with Mischmetal on the Microstructure and Mechanical Properties of Extruded Mg ₉₅ Al ₅ CaMn-Based Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019 , 32, 205-217	2.5	4
184	Bio-inspired graphene-based coatings on Mg alloy surfaces and their integrations of anti-corrosive/wearable performances. <i>Carbon</i> , 2019 , 141, 154-168	10.4	35
183	Origin of texture weakening in a rolled ZEX4101 alloy sheet and its effect on room temperature formability and tensile property. <i>Journal of Alloys and Compounds</i> , 2019 , 782, 304-314	5.7	26
182	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
181	Comparison of coercivity and squareness in hot-deformed and sintered magnets produced from a Nd-Fe-B-Cu-Ga alloy. <i>Scripta Materialia</i> , 2019 , 160, 9-14	5.6	16
180	Development of Heat-Treatable High-Strength Mg ₉₅ Al ₅ Zr Sheet Alloy with Excellent Room Temperature Formability. <i>Minerals, Metals and Materials Series</i> , 2018 , 361-364	0.3	2
179	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
178	Alloy Design for the Development of Heat Treatable High Strength Mg Sheet Alloy with Excellent Room Temperature Formability. <i>Minerals, Metals and Materials Series</i> , 2018 , 373-377	0.3	
177	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
176	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
175	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
174	Microstructure evolution and mechanical properties of as-extruded Mg-Gd-Y-Zr alloy with Zn and Nd additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 713, 234-243	5.3	44
173	Enhancement of current-perpendicular-to-plane giant magnetoresistive outputs by improving B2-order in polycrystalline Co ₂ (Mn _{0.6} Fe _{0.4})Ge Heusler alloy films with the insertion of amorphous CoFeBTa underlayer. <i>Acta Materialia</i> , 2018 , 142, 49-57	8.4	15
172	Microstructure of a Dy-free Nd-Fe-B sintered magnet with 2 T coercivity. <i>Acta Materialia</i> , 2018 , 156, 146-157	8.57	33

171	Bake-hardenable Mg-Al-Zn-Mn-Ca sheet alloy processed by twin-roll casting. <i>Acta Materialia</i> , 2018 , 158, 278-288	8.4	74
170	Unveiling the formation of basal texture variations based on twinning and dynamic recrystallization in AZ31 magnesium alloy during extrusion. <i>Acta Materialia</i> , 2018 , 157, 53-71	8.4	175
169	Improving mechanical properties and yield asymmetry in high-speed extrudable Mg-1.1Al-0.24Ca (wt%) alloy by high Mn addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 12-19	5.3	35
168	Correlation between dynamic recrystallization and formation of rare earth texture in a Mg-Zn-Gd magnesium alloy during extrusion. <i>Scientific Reports</i> , 2018 , 8, 16800	4.9	30
167	Enhancing mechanical properties of rolled Mg-Al-Ca-Mn alloy sheet by Zn addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 737, 223-229	5.3	21
166	Effects of rolling conditions on the microstructure and mechanical properties in a Mg-Al-Ca-Mn-Zn alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 730, 147-154	5.3	25
165	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
164	Development of Ultra-High Strength and Ductile Mg-Gd-Y-Zn-Zr Alloys by Extrusion with Forced Air Cooling. <i>Minerals, Metals and Materials Series</i> , 2017 , 23-28	0.3	
163	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
162	Ageing behavior of extruded Mg-8.2Gd-3.8Y-1.0Zn-0.4Zr (wt.%) alloy containing LPSO phase and η precipitates. <i>Scientific Reports</i> , 2017 , 7, 43391	4.9	50
161	Development of High-Strength High-Speed-Extrudable Mg-Al-Ca-Mn Alloy. <i>Minerals, Metals and Materials Series</i> , 2017 , 17-21	0.3	1
160	Effect of Ca on the Microstructure, Texture and Mechanical Properties in Mg-Zn-Mn Based Alloy. <i>Minerals, Metals and Materials Series</i> , 2017 , 525-531	0.3	1
159	Magnetization reversal of exchange-coupled and exchange-decoupled Nd-Fe-B magnets observed by magneto-optical Kerr effect microscopy. <i>Acta Materialia</i> , 2017 , 135, 68-76	8.4	69
158	Improving creep property of Mg-Gd-Zn alloy via trace Ca addition. <i>Scripta Materialia</i> , 2017 , 139, 34-38	5.6	24
157	A heat-treatable Mg-Al-Ca-Mn-Zn sheet alloy with good room temperature formability. <i>Scripta Materialia</i> , 2017 , 138, 151-155	5.6	60
156	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
155	Strong and ductile age-hardening Mg-Al-Ca-Mn alloy that can be extruded as fast as aluminum alloys. <i>Acta Materialia</i> , 2017 , 130, 261-270	8.4	99
154	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

153	Effects of pre-annealing on microstructure and mechanical properties of as-extruded Mg-Gd-Y-Zn-Zr alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 627-637	5.7	47
152	Influence of Ca-Ce/La synergistic alloying on the microstructure and mechanical properties of extruded Mg ₇₀ Zn ₃₀ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 11-20	5.3	38
151	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
150	Enhancing strength and ductility of Mg-Zn-Gd alloy via slow-speed extrusion combined with pre-forging. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 1214-1223	5.7	36
149	Microstructure evolution and mechanical properties of a high strength Mg-11.7Gd-4.9Y-0.3Zr (wt%) alloy prepared by pre-deformation annealing, hot extrusion and ageing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 703, 348-358	5.3	54
148	Microstructure and Mechanical Properties of Mg ₇₀ Zn ₃₀ Gd Alloys After Rolling or Extrusion Processes. <i>Minerals, Metals and Materials Series</i> , 2017 , 441-448	0.3	
147	Microstructure and Mechanical Properties of an Extruded Mg-1.58Zn-0.52Gd Alloy. <i>Minerals, Metals and Materials Series</i> , 2017 , 297-301	0.3	1
146	Enhanced corrosion and wear resistances by graphene oxide coating on the surface of Mg-Zn-Ca alloy. <i>Carbon</i> , 2016 , 109, 340-351	10.4	69
145	Ultrahigh strength as-extruded Mg _{90.3} Zn _{8.4} Y _{0.4} Zr _{0.5} Ca alloy containing W phase. <i>Materials and Design</i> , 2016 , 108, 391-399	8.1	61
144	Rare earth texture and improved ductility in a Mg-Zn-Gd alloy after high-speed extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 667, 233-239	5.3	88
143	Structure and chemical compositions of the grain boundary phase in Nd-Fe-B sintered magnets. <i>Acta Materialia</i> , 2016 , 115, 269-277	8.4	118
142	Effect of warm rolling on the microstructure, texture and mechanical properties of extruded Mg ₇₀ Zn ₃₀ Al ₁₀ La alloy. <i>Materials Characterization</i> , 2016 , 115, 1-7	3.9	18
141	Development of dilute Mg ₇₀ Zn ₃₀ Al ₁₀ Mn alloy with high performance via extrusion. <i>Journal of Alloys and Compounds</i> , 2016 , 668, 13-21	5.7	76
140	Formation of non-ferromagnetic grain boundary phase in a Ga-doped Nd-rich Nd ₈₀ Fe ₂₀ B sintered magnet. <i>Scripta Materialia</i> , 2016 , 113, 218-221	5.6	118
139	Enhancement of L2 1 order and spin-polarization of Heusler alloy Co ₂ MnSi thin film by Ag alloying. <i>Scripta Materialia</i> , 2016 , 110, 70-73	5.6	5
138	Newly-developed flame-retardant magnesium alloy with superior age-hardenability and extrudability. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2016 , 66, 216-220	0.3	1
137	High-speed extrusion of dilute Mg-Zn-Ca-Mn alloys and its effect on microstructure, texture and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 329-338	5.3	53
136	Optimization of Mn content for high strengths in high-speed extruded Mg-0.3Al-0.3Ca (wt%) dilute alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 673, 443-449	5.3	30

135	Improving tensile properties of dilute Mg-0.27Al-0.13Ca-0.21Mn (at.%) alloy by low temperature high speed extrusion. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 428-437	5.7	50
134	Effect of carbon on the coercivity and microstructure in fine-grained NdFeB sintered magnet. <i>Acta Materialia</i> , 2015 , 84, 506-514	8.4	46
133	High-speed extrusion of heat-treatable MgAlCaMn dilute alloy. <i>Scripta Materialia</i> , 2015 , 101, 28-31	5.6	58
132	Influence of deformation rate on microstructure, texture and mechanical properties of indirect-extruded MgZnCa alloy. <i>Materials Characterization</i> , 2015 , 104, 66-72	3.9	52
131	Effect of calcium addition on microstructure and texture modification of Mg rolled sheets. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 2875-2883	3.3	10
130	Strong and ductile heat-treatable MgSnZnAl wrought alloys. <i>Acta Materialia</i> , 2015 , 99, 176-186	8.4	114
129	Improving strength and ductility of MgCuMnZr 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
128	Microstructure, texture and mechanical properties of extruded MgBAlNd0.2Mn alloy. <i>Journal of Alloys and Compounds</i> , 2015 , 653, 100-107	5.7	18
127	Texture weakening and ductility variation of MgZn alloy with CA or RE addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 645, 196-204	5.3	75
126	Reducing the tension-compression yield asymmetry of extruded MgZnCa alloy via equal channel angular pressing. <i>Journal of Magnesium and Alloys</i> , 2015 , 3, 302-308	8.8	40
125	Effect of microalloyed Zr on the extruded microstructure of MgB.2Zn-based alloys. <i>Scripta Materialia</i> , 2014 , 90-91, 37-40	5.6	41
124	Effect of finish-rolling conditions on mechanical properties and texture characteristics of AM50 alloy sheet. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 2761-2766	3.3	5
123	High strength and formable MgB.2Zn0.5Zr0.2Ca alloy sheet processed by twin roll casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 154-160	5.3	51
122	Solute clustering and grain boundary segregation in extruded dilute MgCu alloys. <i>Scripta Materialia</i> , 2014 , 93, 28-31	5.6	101
121	Fatigue Behavior of Extruded Mg-Al-Ca-Mn Alloy with T6 Treatment at Elevated Temperature. <i>Key Engineering Materials</i> , 2014 , 627, 417-420	0.4	1
120	Effect of extrusion ratio on microstructure, texture and mechanical properties of indirectly extruded MgZnCa alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 569, 48-53	5.3	58
119	Effect of extrusion conditions on microstructure and mechanical properties of microalloyed MgSnAlZn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 318-328	5.3	155
118	FEM modeling of dynamical recrystallization during multi-pass hot rolling of AM50 alloy and experimental verification. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 2678-2685	3.3	9

117	Effects of trace Gd concentration on texture and mechanical properties of hot-rolled Mg ₂ Zn ₂ Gd sheets. <i>Journal of Magnesium and Alloys</i> , 2013 , 1, 23-30	8.8	61
116	Effect of ageing treatment on the precipitation behaviour of Mg ₂ Gd ₂ Zn ₂ alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 50-56	5.7	45
115	Activation of {1 0 1 $\bar{2}$ } twinning and slip in high ductile Mg ₂ .0Zn _{0.8} Gd rolled sheet with non-basal texture during tensile deformation at room temperature. <i>Journal of Alloys and Compounds</i> , 2013 , 566, 98-107	5.7	62
114	Effect of final rolling reduction on the microstructure and mechanical properties of Mg ₂ Gd ₂ Zn ₂ alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 232-240	5.3	38
113	Effect of cooling rate on the microstructure evolution and mechanical properties of homogenized Mg ₂ Gd ₂ Zn ₂ alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 364-370	5.3	51
112	Influence of rolling temperature on the microstructure and mechanical properties of Mg ₂ Gd ₂ Zn ₂ alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 615-622	5.3	42
111	Microstructure and mechanical properties of Mg ₂ Gd ₂ Zn ₂ 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
110	Room and elevated temperature mechanical properties in the as-extruded Mg ₂ Al ₂ Ca ₂ Mn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 539, 163-169	5.3	45
109	Effects of different cooling rates during two casting processes on the microstructures and mechanical properties of extruded Mg ₂ Al ₂ Ca ₂ Mn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 542, 71-78	5.3	52
108	Ultra high-strength Mg ₂ Gd ₂ Zn ₂ 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
107	The microstructural evolution and superplastic behavior at low temperatures of Mg ₂ .00Zn _{0.92} Y _{0.16} Zr (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
106	Microstructure and mechanical properties of the Mg ₂ Gd ₂ Zn ₂ 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
105	Microstructures and Mechanical Properties of As-Cast and Hot-Rolled Mg-8.43Li-0.353Ymm (Y-riched mismatch) Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 709-715	2.3	13
104	Development of an extruded Mg ₂ Zn ₂ Ca-based alloy: new insight on the role of Mn addition in precipitation. <i>Philosophical Magazine</i> , 2012 , 92, 1569-1582	1.6	14
103	Intermetallic compounds and antiphase domains in Al/Mg compound casting. <i>Intermetallics</i> , 2012 , 23, 182-186	3.5	29
102	Microstructures and mechanical properties of high-strength Mg ₂ Gd ₂ Zn ₂ alloy sheets processed by severe hot rolling. <i>Journal of Alloys and Compounds</i> , 2012 , 524, 46-52	5.7	83
101	Microstructure and mechanical properties of rolled sheets of Mg ₂ Gd ₂ Zn ₂ alloy: As-cast versus as-homogenized. <i>Journal of Alloys and Compounds</i> , 2012 , 528, 40-44	5.7	29
100	Extruded Mg ₂ Zn ₂ Ca ₂ Mn alloys with low yield anisotropy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 356-365	5.3	75

99	Microstructure Characteristics and Mechanical Properties of Al 413/Mg Joint in Compound Casting Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 4667-4677	2.3	28
98	Joining strength of AM50 magnesium alloy sheet jointed by in-situ heating self pierce riveting process. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2012 , 62, 237-243	0.3	1
97	Effect of Cu addition on mechanical properties of Mg [^] Gd [^] Zn [^] Zr casting alloy. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2012 , 62, 272-277	0.3	6
96	Twins, shear bands and recrystallization of a Mg ₂ .0%Zn _{0.8} %Gd alloy during rolling. <i>Scripta Materialia</i> , 2011 , 64, 141-144	5.6	108
95	High-strength extruded Mg ₂ Al _{0.5} CaMn alloy. <i>Scripta Materialia</i> , 2011 , 65, 269-272	5.6	166
94	Twins, recrystallization and texture evolution of a Mg ₂ .99Zn _{0.76} Ca _{0.35} Mn (wt.%) alloy during indirect extrusion process. <i>Scripta Materialia</i> , 2011 , 65, 875-878	5.6	56
93	Unexpected influence of Mn addition on the creep properties of a cast Mg ₂ Al _{0.5} Ca (mass%) alloy. <i>Acta Materialia</i> , 2011 , 59, 7662-7672	8.4	57
92	Dissimilar joining of Al/Mg light metals by compound casting process. <i>Journal of Materials Science</i> , 2011 , 46, 6491-6499	4.3	93
91	Effect of Mn addition on microstructure, texture and mechanical properties of Mg ₂ Zn _{0.5} Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 3741-3747	5.3	78
90	Estimation of the transient interfacial heat flux between substrate/melt at the initiation of magnesium solidification on aluminum substrates using the lumped capacitance method. <i>Applied Surface Science</i> , 2011 , 257, 5077-5082	6.7	5
89	Effect of homogenization on microstructures and mechanical properties of hot compressed Mg ₂ Al _{0.5} Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2385-2393	5.3	41
88	Microstructure and mechanical properties of extruded Mg ₂ Gd ₂ Y _{0.5} Nd _{0.3} Zn _{0.6} Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 7805-7810	5.3	25
87	Dynamic microstructural changes during hot extrusion and mechanical properties of a Mg ₂ .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
86	Improvement of the mechanical properties of Mg-Gd-Y-Zn alloy castings by grain refinement. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 21, 012017	0.4	
85	Microstructure and Mechanical Properties of Extruded Mg-Zn-Ca Alloy. <i>Materials Science Forum</i> , 2010 , 654-656, 703-706	0.4	2
84	Microstructure and Compression Properties of Al-Si Alloy Foams by Spark Plasma Sintering Technique. <i>Materials Science Forum</i> , 2010 , 638-642, 1890-1895	0.4	1
83	Numerical simulation for microstructure evolution in AM50 Mg alloy during hot rolling. <i>Computational Materials Science</i> , 2010 , 47, 919-925	3.2	30
82	Microstructure and mechanical properties of extruded Mg-6.5Gd-1.3Nd-0.7Y-0.3Zn alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, s508-s512	3.3	6

81	Microstructure characteristics during the multi-pass hot rolling and their effect on the mechanical properties of AM50 magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 3379-3385	5.3	20
80	Towards the development of heat-treatable high-strength wrought Mg alloys. <i>Scripta Materialia</i> , 2010 , 63, 710-715	5.6	241
79	Recrystallization mechanism and the relationship between grain size and Zener-Hollomon parameter of Mg-Al-Zn alloys during hot compression. <i>Scripta Materialia</i> , 2010 , 63, 293-296	5.6	130
78	Improvement in creep property of a cast Mg-Al-Ca alloy by Mn addition. <i>Scripta Materialia</i> , 2010 , 63, 1173-1176	5.6	43
77	Effect of Zr addition on the mechanical properties of as-extruded Mg-Zn-Al alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2356-2362	5.3	99
76	Influence of ECAP routes on microstructure and mechanical properties of Mg-Zn-Al alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 4250-4256	5.3	81
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