

Yoshihito Kawamura

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.

204
papers

7,386
citations

39
h-index

83
g-index

209
ext. papers

8,246
ext. citations

3.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
204	Advanced Mg ₉₇ Al ₃ Alloys with Combined Properties of High Thermal Conductivity, High Mechanical Strength and Non-Flammability. <i>Materials Transactions</i> , 2022 , 63, 118-127	1.3	0
203	In Situ Measurements on Formation and Development of LPSO-like Nanostructures in Dilute Mg ₉₇ Zn and Mg ₉₇ GdZn Alloys. <i>Minerals, Metals and Materials Series</i> , 2022 , 149-153	0.3	0
202	Effect of hierarchical multimodal microstructure evolution on tensile properties and fracture toughness of rapidly solidified Mg ₉₇ Zn ₃ Al alloys with LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 832, 142348	5.3	1
201	Short-range order clusters in the long-period stacking/order phases with an intrinsic-I type stacking fault in Mg-Co-Y alloys. <i>Scripta Materialia</i> , 2022 , 207, 114282	5.6	7
200	Influence of crystallographic orientation and Al alloying on the corrosion behaviour of extruded Mg/LPSO two-phase Mg-Zn-Y alloys with multimodal microstructure. <i>Corrosion Science</i> , 2022 , 200, 110237	6.8	1
199	Mg/LPSO (Long-Period Stacking Ordered) phase interfaces as obstacles against dislocation slip in as-cast Mg-Zn-Y alloys. <i>International Journal of Plasticity</i> , 2022 , 154, 103294	7.6	2
198	Thermal stability of the microstructure of rapidly solidified ribbon-consolidated Mg _{97.94} Zn _{0.56} Y _{1.5} alloy. <i>Materials Characterization</i> , 2021 , 111618	3.9	0
197	Surprising increase in yield stress of Mg single crystal using long-period stacking ordered nanoplates. <i>Acta Materialia</i> , 2021 , 209, 116797	8.4	17
196	Wrought-procedure memory in caliber rolled Mg-Y-Zn alloy containing LPSO phase. <i>Materials Characterization</i> , 2021 , 175, 111080	3.9	3
195	Formation Process of Long-Period Stacking-Ordered Structures in Mg ₉₇ Zn ₁ Y ₂ Alloy Comprising HCP and Cubic Phases Fabricated by High-Pressure High-Temperature Annealing. <i>Metals</i> , 2021 , 11, 10312-3	2.3	0
194	Quantitative kink boundaries strengthening effect of Mg-Y-Zn alloy containing LPSO phase. <i>Materials Letters</i> , 2021 , 292, 129625	3.3	6
193	Texture evolution and fracture behavior of friction-stir-welded non-flammable Mg ₉₇ Al ₃ alloy extrusions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 799, 140090	5.3	3
192	Investigation of Microstructural Factors Affecting the Plane-Strain Fracture Toughness of Mg ₉₇ Zn ₃ Al Alloys Processed by Consolidation of Rapidly Solidified Ribbons. <i>Minerals, Metals and Materials Series</i> , 2021 , 71-77	0.3	1
191	Formation of σ -rotation-type kink boundary in Mg ₉₇ Zn ₃ alloy with long-period stacking ordered structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 819, 141466	5.3	2
190	Intrinsic kink bands strengthening induced by several wrought-processes in Mg-Y-Zn alloys containing LPSO phase. <i>Materials Characterization</i> , 2021 , 179, 111348	3.9	4
189	Dynamically Recrystallized Structure and Mechanical Properties of Mg ₉₆ Zn ₂ Y ₂ Alloys Deformed by ECAP. <i>Materials Transactions</i> , 2021 , 62, 1304-1310	1.3	1
188	Quantitative estimation of kink-band strengthening in an Mg ₉₇ Zn ₃ single crystal with LPSO nanoplates. <i>Materials Research Letters</i> , 2021 , 9, 467-474	7.4	6

187	Enhanced non-linearity during unloading by LPSO phase in as-cast Mg-Zn-Y alloys and slip-dominated non-linear unloading mechanism. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139679	5.3	4
186	Classification of high-temperature oxidation behavior of Mg-1 at% X binary alloys and application of proposed taxonomy to nonflammable multicomponent Mg alloys. <i>Corrosion Science</i> , 2020 , 174, 108858	6.8	3
185	Loading Orientation Dependence of the Formation Behavior of Deformation Kink Bands in the Mg-Based Long-Period Stacking Ordered (LPSO) Phase. <i>Materials Transactions</i> , 2020 , 61, 821-827	1.3	2
184	A novel long-period phase in Mg ₉₇ Yb ₂ Cu ₁ alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 155972	5.7	
183	Hot compression deformation behavior of Mg ₇₇ Zn alloys containing LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 792, 139777	5.3	10
182	Microstructure and mechanical properties of low-temperature wrought-processed Mg ₇₇ Zn alloy containing LPSO phase. <i>Materialia</i> , 2020 , 12, 100786	3.2	5
181	Structural and diffusional phase transformations in liquid-quenched Mg ₈₅ Y ₉ Zn ₆ ribbons below the bifurcation temperature. <i>Acta Materialia</i> , 2020 , 194, 587-593	8.4	2
180	Strengthening of Mg-based long-period stacking ordered (LPSO) phase with deformation kink bands. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138163	5.3	33
179	High-strain-rate superplasticity and tensile behavior of fine-grained Mg ₉₇ Zn ₁ Y ₂ alloys fabricated by chip/ribbon-consolidation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 764, 138179	5.3	7
178	Optimization of mechanical properties of dilute Mg-Zn-Y alloys prepared by rapid solidification. <i>Materials and Design</i> , 2019 , 181, 107984	8.1	17
177	In-situ Investigation of the Microstructure Evolution in Long-Period-Stacking-Ordered (LPSO) Magnesium Alloys as a Function of the Temperature. <i>Frontiers in Materials</i> , 2019 , 6,	4	2
176	High strain-rate superplasticity of AZ91 alloy achieved by rapidly solidified flaky powder metallurgy. <i>Materials Letters</i> , 2019 , 234, 245-248	3.3	12
175	Type and density of dislocations in a plastically deformed long-period stacking ordered magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 771, 629-635	5.7	7
174	Key Factor for the Transformation from hcp to 18R-Type Long-Period Stacking Ordered Structure in Mg Alloys. <i>Materials Transactions</i> , 2019 , 60, 237-245	1.3	5
173	Oxidation behavior and incombustibility of molten Mg-Zn-Y alloys with Ca and Be addition. <i>Corrosion Science</i> , 2019 , 149, 133-143	6.8	14
172	High-Strength AZ91 Alloy Fabricated by Rapidly Solidified Flaky Powder Metallurgy and Hot Extrusion. <i>Metals and Materials International</i> , 2019 , 25, 372-380	2.4	19
171	Ultrafine spherulite Mg alloy with high yield strength. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1284-1289	3.7	7
170	Strengthening mechanisms acting in extruded Mg-based long-period stacking ordered (LPSO)-phase alloys. <i>Acta Materialia</i> , 2019 , 163, 226-239	8.4	121

169	Configuration of dislocations in low-angle kink boundaries formed in a single crystalline long-period stacking ordered Mg-Zn-Y alloy. <i>Acta Materialia</i> , 2018 , 151, 112-124	8.4	49
168	Superplasticity in a Chip-Consolidated Mg97Zn1Y2 Alloy with LPSO Phase. <i>Minerals, Metals and Materials Series</i> , 2018 , 245-249	0.3	
167	Phonon excitations in a single crystal Mg85Zn6Y9 with a synchronized long-period stacking ordered phase. <i>Acta Materialia</i> , 2018 , 146, 273-279	8.4	5
166	Insignificant elastic-modulus mismatch and stress partitioning in two-phase MgZnY alloys comprised of Mg and long-period stacking ordered phases. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 710, 227-239	5.3	16
165	The seeds of Zn6Y8 L12-type clusters in amorphous Mg85Zn6Y9 alloy investigated by photoemission spectroscopy. <i>Journal of Alloys and Compounds</i> , 2018 , 764, 431-436	5.7	2
164	Change of LPSO Phases Morphology in Extruded Mg96Zn2Y2 Alloy Joints during Ultrasonic Spot Welding Process. <i>Transactions of the Materials Research Society of Japan</i> , 2018 , 43, 263-266	0.2	1
163	Formation of Peculiar Deformation Bands in Various Anisotropic Materials Including Mg-based Long-Period Stacking Ordered (LPSO) Phase. <i>Materia Japan</i> , 2018 , 57, 607-607	0.1	
162	Strain-rate dependence of deformation behavior of LPSO-phases. <i>Materials Letters</i> , 2018 , 214, 119-122	3.3	11
161	Hypervelocity impact phenomena of LPSO-magnesium alloys. <i>EPJ Web of Conferences</i> , 2018 , 183, 02033	0.3	
160	Electronic structures and impurity cluster features in Mg-Zn-Y alloys with a synchronized long-period stacking ordered phase. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 797-805	5.7	3
159	Lip Formation and Ejecta from LPSO-type Magnesium Alloy Plates in Hypervelocity Impact. <i>Procedia Engineering</i> , 2017 , 173, 65-72		2
158	Formation of an incombustible oxide film on a molten Mg-Al-Ca alloy. <i>Corrosion Science</i> , 2017 , 122, 118-128		22
157	Transition to long period stacking ordered structures in Mg 85 Gd 9 Zn 6 alloys from amorphous ribbons examined by synchrotron radiation scattering: Comparison with Mg 85 Y 9 Zn 6 alloys. <i>Scripta Materialia</i> , 2017 , 139, 26-29	5.6	11
156	Ejecta From LPSO-Type Magnesium Alloy Targets in Hypervelocity Impact Experiments. <i>Procedia Engineering</i> , 2017 , 204, 270-275		3
155	Strain-hardening behavior and microstructure development in polycrystalline as-cast Mg-Zn-Y alloys with LPSO phase subjected to cyclic loading. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 672, 49-58	5.3	16
154	A long-period superlattice phase in Mg97Zn1Yb2 alloys synthesized under high-pressure. <i>Scripta Materialia</i> , 2016 , 121, 45-49	5.6	14
153	Electron backscatter diffraction pattern analysis of the deformation band formed in the Mg-based long-period stacking ordered phase. <i>Scripta Materialia</i> , 2016 , 117, 32-36	5.6	30
152	Microstructure evolution and mechanical properties of extruded Mg 96 Zn 2 Y 2 alloy joints with ultrasonic spot welding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 925-934	5.3	14

151	Mechanical properties and failure characteristics of cast and extruded Mg97Y2Zn1 alloys with LPSO phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 652, 14-29	5.3	22
150	Plastic deformation behavior of 10H-type synchronized LPSO phase in a MgZnY system. <i>Acta Materialia</i> , 2016 , 109, 90-102	8.4	79
149	Orientation dependence of the deformation kink band formation behavior in Zn single crystal. <i>International Journal of Plasticity</i> , 2016 , 77, 174-191	7.6	52
148	Development of microstructures in rapidly-quenched Mg85Y9Zn6 alloy ribbons during heating at a constant speed examined by simultaneous small- and wide angle scattering measurements. <i>Acta Materialia</i> , 2016 , 118, 95-99	8.4	9
147	Synchronized collapse and formation of long-period stacking and chemical orders in Mg85Zn6Y9. <i>Physica B: Condensed Matter</i> , 2015 , 461, 147-153	2.8	6
146	D03+hcp mixed phase with nanostructures in Mg85Zn6Y9 alloy obtained by high-pressure and high-temperature treatments. <i>Materials Letters</i> , 2015 , 155, 11-14	3.3	4
145	Influence of Long Period Stacking Ordered Phase on Non-Uniform Deformation in Cast Mg-Zn-Y Alloys. <i>Materials Science Forum</i> , 2015 , 816, 481-485	0.4	
144	Quantitative evaluation of creep strain distribution in an extruded MgZnCd alloy of multimodal microstructure. <i>Acta Materialia</i> , 2015 , 82, 198-211	8.4	25
143	Deformation Behavior of Long-Period Stacking Ordered Structured Single Crystals in Mg85Zn6Y9 Alloy. <i>Materials Transactions</i> , 2015 , 56, 952-956	1.3	22
142	Microscopic Elastic Properties of Polycrystalline Mg85Zn6Y9 Alloy with Long-Period Stacking Ordered 18R Phase Investigated by Inelastic X-ray Scattering. <i>Materials Transactions</i> , 2015 , 56, 914-916	1.3	4
141	Phase Relations among D03, α -Mg, and Long-Period Stacking Orders in Mg85Zn6Y9 Alloy under 3 GPa. <i>Materials Transactions</i> , 2015 , 56, 910-913	1.3	4
140	Material Characteristics and Future Perspective on LPSO-type Magnesium Alloys. <i>Materia Japan</i> , 2015 , 54, 44-49	0.1	3
139	Stability of Long-Period Stacking Ordered Structures at Elevated Temperatures Examined by Multicolor Synchrotron Radiation X-ray Scattering/Diffraction Measurements. <i>Materials Transactions</i> , 2015 , 56, 906-909	1.3	4
138	In-Situ Observation on the Formation Behavior of the Deformation Kink Bands in Zn Single Crystal and LPSO Phase. <i>Materials Transactions</i> , 2015 , 56, 943-951	1.3	27
137	Microstructure Characteristic of Extruded Mg96Zn2Y2 Alloy Joints Joined by Ultrasonic Welding. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2015 , 79, 176-182	0.4	5
136	Development of KUMADAI Magnesium Alloys for aircraft. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2015 , 65, 466-471	0.3	1
135	Nanoclusters first: a hierarchical phase transformation in a novel Mg alloy. <i>Scientific Reports</i> , 2015 , 5, 14186	4.9	32
134	Crystallographic nature of deformation bands shown in Zn and Mg-based long-period stacking ordered (LPSO) phase. <i>Philosophical Magazine</i> , 2015 , 95, 132-157	1.6	36

133	Highly ordered 10H-type long-period stacking order phase in a Mg ₉₇ Zn ₁ ternary alloy. <i>Scripta Materialia</i> , 2014 , 78-79, 13-16	5.6	97
132	Microstructural Evolution of Long-Period Stacking Ordered Structures in Mg ₉₇ Y ₂ Zn ₁ Alloys Examined by In-Situ Small-Angle X-ray Scattering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4780-4785	2.3	6
131	In situ measurements on stability of long-period stacking-ordered structures in Mg ₈₅ Y ₉ Zn ₆ alloys during heating examined by multicolor synchrotron radiation small-angle scattering. <i>Scripta Materialia</i> , 2014 , 75, 66-69	5.6	19
130	Development of Microstructures of Long-Period Stacking Ordered Structures in Mg ₈₅ Y ₉ Zn ₆ Alloys Annealed at 673 K (400 °C) Examined by Small-Angle X-Ray Scattering. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 147-151	2.3	4
129	Characterization of an Al-Y-Zn Intermetallic Particle Phase in Extruded Mg ₉₆ Al x Zn ₂ Y _{1.9} La _{0.1} Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2839-2848	2.3	1
128	Evolution of long-period stacking ordered structures on annealing as-cast Mg ₈₅ Y ₉ Zn ₆ alloy ingot observed by synchrotron radiation small-angle scattering. <i>Scripta Materialia</i> , 2013 , 68, 575-578	5.6	30
127	Crystallographic classification of kink bands in an extruded Mg ₉₇ Zn ₁ alloy using intragranular misorientation axis analysis. <i>Acta Materialia</i> , 2013 , 61, 2065-2076	8.4	151
126	Forging induces changes in the formability and microstructure of extruded Mg ₉₆ Zn ₂ Y ₂ alloy with a long-period stacking order phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 563, 21-27	5.3	14
125	Microfracture behaviour of extruded Mg ₉₇ Zn ₁ alloys containing long-period stacking ordered structure at room and elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 570, 63-69	5.3	23
124	Deformation Behavior of LPSO Phase and Zn Accompanied by Kink Band Formation 2013 , 973-978		
123	Effect of LPSO Phase-Stimulated Texture Evolution on Creep Resistance of Extruded Mg–Zn–Gd Alloys. <i>Materials Transactions</i> , 2013 , 54, 703-712	1.3	38
122	Micro-Kinking of the Long-Period Stacking/Order (LPSO) Phase in a Hot-Extruded Mg ₉₇ Zn ₁ Y ₂ Alloy. <i>Materials Transactions</i> , 2013 , 54, 698-702	1.3	49
121	Effect of the Extrusion Conditions on the Microstructure and Mechanical Properties of Indirect extruded Mg-Zn-Y Alloy with LPSO Phase 2013 , 217-219		
120	Deformation Behavior of LpsO Phase and Zn Accompanied by Kink Band Formation 2013 , 973-978		
119	Application of mixture rule to finite element analysis for forging of cast Mg ₉₇ Zn ₁ alloys with long period stacking ordered structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 548, 75-82	5.3	17
118	Microstructure and Mechanical Properties of Mg ₉₆ Zn ₂ Y ₂ Joints Welded by Resistance Spot Welding. <i>Materials Science Forum</i> , 2012 , 706-709, 1187-1192	0.4	1
117	Microstructural Factors Affecting the Deformation Behavior of Mg ₁₂ Zn _Y LPSO-Phase Alloys. <i>Materials Science Forum</i> , 2012 , 706-709, 1158-1163	0.4	3
116	Control of the Nugget Nanostructure of Mg ₉₆ Zn ₂ Y ₂ Welded by Resistance Spot Welding. <i>Materials Science Forum</i> , 2012 , 706-709, 1181-1186	0.4	2

115	The Effect of EMS on the Microstructure of LPSO Mg-Zn-Y Cast Alloy. <i>Materials Science Forum</i> , 2012 , 706-709, 1117-1121	0.4	1
114	Effect of Long-Period Stacking Order Phase and ϵ Mg Phase on Strength and Ductility of Mg-Zn-Y Alloy. <i>Materials Science Forum</i> , 2012 , 706-709, 1237-1242	0.4	1
113	Microstructure of the High-Strength Magnesium Alloy on Cylinder Upsetting. <i>Materials Science Forum</i> , 2012 , 706-709, 1243-1248	0.4	1
112	Enhancement of Strength and Ductility of Mg ₉₆ Zn ₂ Y ₂ Rolled Sheet by Controlling Structure and Plastic Deformation 2012 , 429-432		
111	OS0306 Kink deformation in synchronized LPSO-phase and HCP metals. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2012 , 2012, _OS0306-1_-_OS0306-2_	0	1
110	Effect of Zinc Content on the Microstructure and Mechanical Properties of Extruded Mg-Zn-Y-La Alloys with LPSO Phase 2012 , 197-199		
109	Structure Analysis of a Long Period Stacking Ordered Phase in Mg-Al-Gd Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 267		10
108	Crystal Plasticity Analysis on Compressive Loading of Magnesium with Suppression of Twinning 2011 , 271-277		
107	Examination of Ductility Increase on Forming of Magnesium Alloy. <i>Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A</i> , 2011 , 77, 1061-1064		
106	Microstructure and Mechanical Properties of Mg-Zn-Y-M (M: Mixed RE) Alloys with LPSO Phase 2011 , 229-232		1
105	Effect of multimodal microstructure evolution on mechanical properties of Mg ₉₈ Zn ₂ extruded alloy. <i>Acta Materialia</i> , 2011 , 59, 3646-3658	8.4	332
104	Corrosion and passivation behavior of Mg ₉₈ Zn ₂ Al alloys prepared by cooling rate-controlled solidification. <i>Applied Surface Science</i> , 2011 , 257, 8258-8267	6.7	54
103	Synthesis of Wurtzite-Type ZnMgS by the Pulsed Plasma in Liquid. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 01AB09	1.4	3
102	Explosive Welding of ZrTiCuNiBe Bulk Metallic Glass to Crystalline Cu Plate. <i>Materials Science Forum</i> , 2011 , 673, 119-124	0.4	10
101	Microfracture Test of Mg ₁₂ ZnY Intermetallic Compound in Mg-Zn-Y Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1295, 273		
100	Crystal Plasticity Analysis on Compressive Loading of Magnesium with Suppression of Twinning 2011 , 273-277		1
99	Microstructure and Mechanical Properties of Mg-Zn-Y-M (M: Mixed Re) Alloys with LPSO Phase 2011 , 229-232		1
98	Improvement of Corrosion Resistance of Extruded Mg-Zn-Y Mg/LPSO Two-Phase Alloys by Fourth Element Addition. <i>Materials Science Forum</i> , 2010 , 654-656, 767-770	0.4	9

97	Effect of Annealing on Microstructure and Mechanical Properties in Mg-Zn-Y Alloy with Long Period Stacking Order Phase. <i>Materials Science Forum</i> , 2010 , 638-642, 1470-1475	0.4	
96	Temperature Dependence of Compressive Deformation Behavior of Mg ₈₉ Zn ₄ Y ₇ Extruded LPSO-Phase Alloys. <i>Materials Science Forum</i> , 2010 , 654-656, 607-610	0.4	9
95	Processing Characteristic of the High-Strength Magnesium Alloy. <i>Advanced Materials Research</i> , 2010 , 146-147, 1336-1339	0.5	
94	Preparation and Mechanical Property of Mg-Zn-Y Alloy with a Long Period Ordered Phase. <i>Materials Science Forum</i> , 2010 , 654-656, 619-622	0.4	
93	Nanocrystalline LPSO Mg-Zn-Y-Al Alloys with High Mechanical Strength and Corrosion Resistance. <i>Materials Science Forum</i> , 2010 , 638-642, 1476-1481	0.4	17
92	Thermal Stability and Mechanical Properties of Extruded Mg-Zn-Y Alloys with Long-Period Stacking Order Phase. <i>Materials Science Forum</i> , 2010 , 654-656, 611-614	0.4	2
91	Characteristic of the High-Strength Magnesium Alloy on Cylinder Upsetting. <i>Advanced Materials Research</i> , 2010 , 160-162, 1383-1387	0.5	
90	Multimodal Microstructure Evolution in Wrought Mg-Zn-Y Alloys with High Strength and Increased Ductility. <i>Materials Science Forum</i> , 2010 , 654-656, 615-618	0.4	15
89	Microstructure and Mechanical Properties of Mg-Zn-Y Rolled Sheet with a Mg ₁₂ ZnY Phase. <i>Materials Transactions</i> , 2010 , 51, 1536-1542	1.3	31
88	Effect of Extrusion Parameters on Mechanical Properties of Mg ₉₇ Zn ₁ Y ₂ Alloys at Room and Elevated Temperatures. <i>Materials Transactions</i> , 2010 , 51, 1640-1647	1.3	83
87	Tensile property and cold formability of a Mg ₉₆ Zn ₂ Y ₂ alloy sheet with a long-period ordered phase. <i>Materials Letters</i> , 2010 , 64, 2277-2280	3.3	13
86	Microscale Fracture Testing of Mg-Zn-Y. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1225, 30401		
85	Development of High Strength and Highly Corrosion-Resistant Bulk Nanocrystalline Mg-Zn-Y Alloys with Long Period Stacking Ordered Phase. <i>ECS Transactions</i> , 2009 , 16, 81-88	1	14
84	Influence of Cooling Rate on Corrosion Resistance of Rapidly Solidified Mg-Zn-Y Alloys with Long Period Stacking Ordered Phase. <i>ECS Transactions</i> , 2009 , 16, 65-72	1	6
83	Thermal diffusivity and thermal conductivity of Mg-Zn-Y rare earth element alloys with long-period stacking ordered phase. <i>Scripta Materialia</i> , 2009 , 60, 264-267	5.6	100
82	Relation between corrosion behavior and microstructure of Mg-Zn-Y alloys prepared by rapid solidification at various cooling rates. <i>Corrosion Science</i> , 2009 , 51, 395-402	6.8	128
81	Microstructures and Mechanical Properties of Mg ₉₆ Zn ₂ Y ₂ Alloy Prepared by Extrusion of Machined Chips. <i>Materials Transactions</i> , 2009 , 50, 349-353	1.3	9
80	Characterization of Precipitates in Mg-Sm Alloy Aged at 200°C, Studied by High-Resolution Transmission Electron Microscopy and High-Angle Annular Detector Dark-Field Scanning Transmission Electron Microscopy. <i>Materials Transactions</i> , 2009 , 50, 1747-1752	1.3	37

79	Evolution of Mechanical Properties and Microstructure in Extruded Mg ₉₆ Zn ₂ Y ₂ Alloys by Annealing. <i>Materials Transactions</i> , 2009 , 50, 2526-2531	1.3	45
78	Forgeability and Flow Stress of Mg-Zn-Y Alloys with Long Period Stacking Ordered Structure at Elevated Temperatures. <i>Materials Transactions</i> , 2009 , 50, 841-846	1.3	24
77	Microstructure and mechanical properties of Mg ₉₆ Zn ₂ Y rolled sheet with a Mg ₁₂ ZnY phase. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2009 , 59, 444-449	0.3	3
76	OS0302 Influence of RE elements on microstructure and mechanical properties of the quaternary Mg-Zn-Y-RE systems. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2009 , 2009, 573-575	0	
75	OS0304 Multimodal Microstructure Evolution and Mechanical Properties of Mg Alloys. <i>The Proceedings of the Materials and Mechanics Conference</i> , 2009 , 2009, 579-580	0	
74	Role of the Microstructure on the Deformation Behavior in Mg ₁₂ ZnY with a Long-Period Stacking Ordered Structure. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1128, 55301		8
73	The Fine-Grained Structure in Magnesium Alloy Containing Long-Period Stacking Order Phase. <i>Materials Transactions</i> , 2008 , 49, 1294-1297	1.3	27
72	Microstructure Evolutions of Rapidly-Solidified and Conventionally-Cast Mg ₉₇ Zn ₁ Y ₂ Alloys. <i>Materials Transactions</i> , 2008 , 49, 990-994	1.3	64
71	Microstructure and mechanical properties of Mg ₉₆ Zn ₂ Y ₂ alloy prepared by extrusion of machined chips. <i>Keikinzoku/Journal of Japan Institute of Light Metals</i> , 2008 , 58, 54-57	0.3	1
70	Formation of 14H long period stacking ordered structure and profuse stacking faults in Mg ₉₆ Zn ₂ Y alloys during isothermal aging at high temperature. <i>Acta Materialia</i> , 2007 , 55, 6798-6805	8.4	380
69	Vacuum degassing behavior of Zr-, Ni- and Cu-based metallic glass powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 907-910	5.3	10
68	Effect of process atmosphere on the mechanical properties of rapidly solidified powder metallurgy Al ₈₀ Be ₁₀ Zr ₁₀ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 794-798	5.3	19
67	Vacuum degassing behavior of rapidly solidified Al ₈₀ Mn ₁₀ Zr ₁₀ alloy powders. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 449-451, 1013-1017	5.3	9
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59	Mechanical properties of continuously consolidated Mg96Zn2Y2 magnesium alloy chips. <i>Keikinzoiku/Journal of Japan Institute of Light Metals</i> , 2007 , 57, 286-292	0.3	3
58	Corrosion behavior of rapidly solidified MgZnRare earth element alloys in NaCl solution. <i>Corrosion Science</i> , 2007 , 49, 255-262	6.8	90
57	Elevated temperature Mg97Y2Cu1 alloy with long period ordered structure. <i>Scripta Materialia</i> , 2006 , 55, 453-456	5.6	218
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50	Microstructure and Mechanical Properties of Extruded Mg-Zn-Y Alloys with 14H Long Period Ordered Structure. <i>Materials Transactions</i> , 2006 , 47, 959-965	1.3	253
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48	Thermal diffusivity and conductivity of Zr55Al10Ni5Cu30 bulk metallic glass. <i>Scripta Materialia</i> , 2005 , 53, 63-67	5.6	111
47	Mechanical properties of warm-extruded MgZnCu alloy with coherent 14H long periodic stacking ordered structure precipitate. <i>Scripta Materialia</i> , 2005 , 53, 799-803	5.6	372
46	Synthesis of Cu-Based Bulk Metallic Glass Matrix Composites by Warm Processing of Gas Atomized Powders. <i>Materials Science Forum</i> , 2005 , 475-479, 3419-3422	0.4	6
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44	Atomic-Resolution Observations of Nano-Size Precipitates Developed in a Mg-Zn-Ce-Y Alloy. <i>Materia Japan</i> , 2005 , 44, 980-980	0.1	

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41	Electron-beam welding of Zr-based bulk metallic glasses. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 375-377, 312-316	5.3	56
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