Liming Peng

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.

188
papers

5,455
citations

4.7
ext. papers

65
g-index

4.7
ext. citations

25.77
ext. citations

27
b-index

65
g-index

5.77
ext. citations

#	Paper	IF	Citations
188	The effect of cross-section geometry of castings on dendrite evolution in Mg Gd alloys by in situ X-ray radiography. <i>Materials Characterization</i> , 2022 , 186, 111751	3.9	
187	Optical H2-sensing properties of ordered porous WO3 films prepared by colloidal template method. <i>Journal of Materials Science: Materials in Electronics</i> , 2022 , 33, 1604-1617	2.1	1
186	Recent progress in Mg alloys investigated via synchrotron radiation. <i>Materials Science and Technology</i> , 2022 , 38, 131-142	1.5	O
185	Microstructure evolution and mechanical properties of a high-strength Mg-10Gd-3YIIZn-0.4Zr alloy fabricated by laser powder bed fusion. <i>Additive Manufacturing</i> , 2022 , 49, 102517	6.1	O
184	Effect of heat treatment on microstructure evolution and mechanical properties of selective laser melted Mg-11Gd-2Zn-0.4Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 829, 142139	5.3	4
183	Laser powder bed fusion of an age-hardenable Mg-10Gd-0.2Zr alloy with excellent strength-ductility synergy. <i>Journal of Alloys and Compounds</i> , 2022 , 164863	5.7	0
182	Microstructure and mechanical properties of Mg-Gd-Y-Zn-Zr alloy prepared by rheo-diecasting. <i>Materials Science & Materials: Properties, Microstructure and Processing</i> , 2022 , 143287	5.3	O
181	Cross-Scale Simulation Research on the Macro/Microstructure of TC4 Alloy Wire Laser Additive Manufacturing. <i>Metals</i> , 2022 , 12, 934	2.3	1
180	Interfacial reaction of aluminum borate whisker reinforced Mg-10Gd-3Y-1Zn-0.4Zr (wt%) alloy matrix composite. <i>Materials Characterization</i> , 2021 , 183, 111649	3.9	O
179	Synergic effects of Gd and Y contents on the age-hardening response and elevated-temperature mechanical properties of extruded Mgtd(-Y)-Zn-Mn alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 810, 141019	5.3	14
178	High-strength and high-modulus Al18B4O33W/GWZ1031K magnesium matrix composite prepared by squeeze casting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 817, 141393	5.3	1
177	Deformation-induced dissolution of long-period stacking ordered structures and its re-precipitation in a Mg-Gd-Zn-Mn alloy. <i>Materials Characterization</i> , 2021 , 171, 110756	3.9	1
176	Microstructural evolution of Mg-10Gd-3Y-1Zn-0.4Zr (wt%) alloy prepared by strain-induced melt activation process. <i>Materials Characterization</i> , 2021 , 171, 110831	3.9	3
175	The effect of microstructure on the plastic strain localization and fatigue crack initiation in cast MgBGdBYD.5Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 801, 140383	5.3	2
174	Microstructures and mechanical properties of Mg-15Gd-1Zn-0.4Zr alloys treated by ultrasonic surface rolling process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 141881	5.3	5
173	Influence of friction stir processing and aging heat treatment on microstructure and mechanical properties of selective laser melted Mg-Gd-Zr alloy. <i>Additive Manufacturing</i> , 2021 , 44, 102036	6.1	2
172	Microstructural evolution and interfacial characterization of Al18B4O33w/ GWZ1031K magnesium matrix composite during heat treatment. <i>Materials Characterization</i> , 2021 , 178, 111255	3.9	2

(2019-2020)

171	Concurrent effects of various B additions on grain refinement, Fe intermetallics morphologies, and ductility evolution of Al-7.5Si-0.55 Mg (A357) cast alloy. <i>SN Applied Sciences</i> , 2020 , 2, 1	1.8	1	
170	Effects of nanoprecipitates and LPSO structure on deformation and fracture behaviour of high-strength Mg-Gd-Y-Zn-Mn alloys. <i>Materials Characterization</i> , 2020 , 165, 110396	3.9	21	
169	Achieving ultra-high strength in MgtdAgtr wrought alloy via bimodal-grained structure and enhanced precipitation. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 160-170	9.1	28	
168	Fabrication of high-strength Mg-Gd-Zn-Zr alloy via selective laser melting. <i>Materials Characterization</i> , 2020 , 165, 110377	3.9	18	
167	Microstructure evolution difference in Mg96.5Gd2.5Zn1 alloys extruded from as-cast and solution-treated states. <i>Journal of Materials Processing Technology</i> , 2020 , 282, 116666	5.3	6	
166	A study of microstructure, mechanical behavior and strengthen mechanism in the Mg-10Gd-0.2Zn-(Y)-0.4Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139881	5.3	3	
165	Phase-field study of the effects of the multi-controlling parameters on columnar dendrite during directional solidification in hexagonal materials. <i>European Physical Journal E</i> , 2020 , 43, 41	1.5	2	
164	Coupling in situ synchrotron X-ray radiography and phase-field simulation to study the effect of low cooling rates on dendrite morphology during directional solidification in Mgtd alloys. <i>Journal of Alloys and Compounds</i> , 2020 , 815, 152385	5.7	16	
163	Microstructures and mechanical properties of Mg-Gd-Zn-Zr alloys prepared by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2020 , 820, 153405	5.7	8	
162	Role of Mg2Si precipitates size in determining the ductility of A357 cast alloy. <i>Materials and Design</i> , 2020 , 186, 108280	8.1	20	
161	High-strength GWZ1031K alloy with gradient structure induced by surface mechanical attrition treatment. <i>Materials Characterization</i> , 2020 , 170, 110701	3.9	5	
160	Characterization of microstructure and nanoscale phase in Mg-15Gd-1Zn (wt.%) alloy fabricated by rotating magnetic field casting. <i>Materials Characterization</i> , 2020 , 170, 110660	3.9	2	
159	Tuning texture and precipitation using Y/Gd atomic ratio in iso-concentration MgMadagar extruded alloys. <i>Materials Characterization</i> , 2020 , 167, 110473	3.9	9	
158	Semisolid rheoforming of magnesium alloys: A review. <i>Materials and Design</i> , 2020 , 195, 108990	8.1	12	
157	A Simplified Hot-Tearing Criterion for Shape Castings Based on Temperature-Field Simulation. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019 , 50, 5271-52	286 ^{2.3}	2	
156	On the evolution of R precipitate during creep in a MgB.3YD.1Zr(at.%) alloy. <i>Materials Characterization</i> , 2019 , 147, 414-420	3.9	5	
155	Development of high strength sand cast MgtddIn alloy by co-precipitation of the prismatic I and I phases. <i>Materials Characterization</i> , 2019 , 153, 157-168	3.9	27	
154	Effective strategy for improving infrared emissivity of Zn-Ni porous coating. <i>Applied Surface Science</i> , 2019 , 485, 92-100	6.7	5	

153	Precipitation modification in cast Mg@Nd@Ce@r alloy by Zn addition. <i>Journal of Magnesium and Alloys</i> , 2019 , 7, 113-123	8.8	28
152	The effects of grain size and heat treatment on the deformation heterogeneities and fatigue behaviors of GW83K magnesium alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2019 , 754, 246-257	5.3	6
151	A super high-strength Mg-Gd-Y-Zn-Mn alloy fabricated by hot extrusion and strain aging. <i>Materials and Design</i> , 2019 , 169, 107666	8.1	45
150	Basal slip dominant fatigue damage behavior in a cast Mg-8Gd-3Y-Zr alloy. <i>International Journal of Fatigue</i> , 2019 , 118, 104-116	5	12
149	Quench sensitivity characterization of a LPSO-phase containing Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 749, 291-300	5.3	9
148	A polycrystal plasticity based thermo-mechanical-dynamic recrystallization coupled modeling method and its application to light weight alloys. <i>International Journal of Plasticity</i> , 2019 , 116, 159-191	7.6	24
147	Small crack initiation and early propagation in an as-extruded Mg-10Gd-3Y-0.5Zr alloy in high cycle fatigue regime. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2019 , 744, 716-723	5.3	12
146	A detailed HAADF-STEM study of precipitate evolution in Mgtd alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 777, 531-543	5.7	35
145	Effect of Cu addition on microstructures and tensile properties of high-pressure die-casting Al-5.5Mg-0.7Mn alloy. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1017-1026	9.1	14
144	Effect of microstructure on small fatigue crack initiation and early propagation behavior in Mg-10Gd-3Y-0.3Zr alloy. <i>International Journal of Fatigue</i> , 2019 , 119, 311-319	5	22
143	The role of bimodal-grained structure in strengthening tensile strength and decreasing yield asymmetry of Mg-Gd-Zn-Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 262-273	5.3	51
142	Effect of cooling rates on the dendritic morphology transition of MgBGd alloy by in situ X-ray radiography. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1142-1148	9.1	21
141	Quasi-in-situ STEM-EDS insight into the role of Ag in the corrosion behaviour of Mg-Gd-Zr alloys. <i>Corrosion Science</i> , 2018 , 136, 106-118	6.8	30
140	Improved optical properties of switchable mirrors based on Pd/Mg-TiO2 films fabricated by magnetron sputtering. <i>Materials and Design</i> , 2018 , 144, 256-262	8.1	7
139	On the Precipitation in an Ag-Containing Mg-Gd-Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 673-694	2.3	36
138	Influence of alloying elements on hot tearing susceptibility of MgIn alloys based on thermodynamic calculation and experimental. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 44-51	8.8	12
137	Polycrystal plasticity simulation of extrusion of a magnesium alloy round bar: Effect of strain path non-uniformity. <i>Journal of Alloys and Compounds</i> , 2018 , 730, 161-181	5.7	8
136	Influence of sodium dodecyl sulphate on the surface morphology and infrared emissivity of porous Ni film. <i>Infrared Physics and Technology</i> , 2018 , 93, 162-170	2.7	6

135	Small crack behavior of extruded Mg-Gd-Y-Zr alloy under high cycle fatigue. <i>The Proceedings of Conference of Kyushu Branch</i> , 2018 , 2018.71, C45	Ο	
134	Co-precipitation on the Basal and Prismatic Planes in MgtdAgtr Alloy Subjected to Over-Ageing. <i>Minerals, Metals and Materials Series</i> , 2018 , 379-383	0.3	
133	Solute-homogenization model and its experimental verification in Mg-Gd-based alloys. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 1132-1141	9.1	12
132	Cyclic Deformation and Correspondent Crack Initiation at Low-Stress Amplitudes in Mg?Gd?Y?Zr Alloy. <i>Materials</i> , 2018 , 11,	3.5	2
131	Effect of applied pressure on microstructures of squeeze cast Mg🛮5GdឋZn🖰.4Zr alloy. <i>Journal of Magnesium and Alloys</i> , 2018 , 6, 197-204	8.8	23
130	Effect of heat treatment on strainflontrolled fatigue behavior of cast MgMdInIIr alloy. <i>Journal of Materials Science and Technology</i> , 2018 , 34, 2091-2099	9.1	9
129	A comparative study of the role of Ag in microstructures and mechanical properties of Mg-Gd and Mg-Y alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 731, 609-622	5.3	39
128	A simulation study of the distribution of 2 precipitates in a crept Mg-Gd-Zr alloy. <i>Computational Materials Science</i> , 2017 , 130, 152-164	3.2	10
127	Microstructure and mechanical properties of laser melting deposited GW103K Mg-RE alloy. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 687, 281-287	5.3	8
126	A Zn-Ni coating with both high electrical conductivity and infrared emissivity prepared by hydrogen evolution method. <i>Applied Surface Science</i> , 2017 , 402, 92-98	6.7	24
125	Characterization and strengthening effects of 2 precipitates in a high-strength casting Mg-15Gd-1Zn-0.4Zr (wt.%) alloy. <i>Materials Characterization</i> , 2017 , 126, 1-9	3.9	62
124	Effect of Nd additions on fatigue characteristics of a cast Mg@n@r alloy. <i>Journal of Materials Research</i> , 2017 , 32, 1083-1093	2.5	1
123	Fatigue characteristics of sand-cast AZ91D magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 1-12	8.8	12
122	A comparison of low-cycle fatigue behavior between the solutionized and aged Mg-3Nd-0.2Zn-0.5Zr alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 695, 342-349	5.3	4
121	Elemental distribution within the long-period stacking ordered structure in a Mg-Gd-Zn-Mn alloy. <i>Materials Characterization</i> , 2017 , 129, 247-251	3.9	2
120	Fabrication and characterization of magnesium matrix composite processed by combination of friction stir processing and high-energy ball milling. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 683, 207-214	5.3	17
119	Microstructure, texture and mechanical properties of friction stir processed Mg-14Gd alloys. <i>Materials and Design</i> , 2017 , 130, 90-102	8.1	39
118	Formation of and interaction between <code>@F</code> and <code>@</code> phases in a Mg-Gd alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 712, 334-344	5.7	31

117	Effects of Mn addition on the microstructures and mechanical properties of the Mg-15Gd-1Zn alloy. Journal of Alloys and Compounds, 2017 , 698, 1066-1076	5.7	19
116	On the strengthening precipitate phases and phase transformation of 2/2 in a Mg-Sm-Zr alloy. <i>Materials and Design</i> , 2017 , 116, 419-426	8.1	23
115	Precipitation of Long-Period Stacking Ordered Structure in MgladanMn Alloy . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600705	3.5	1
114	Effects of process parameters on microstructure and mechanical properties of friction stir lap linear welded 6061 aluminum alloy to NZ30K magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 56-63	8.8	34
113	Fabrication of high-strength Mg-Gd-Zn-Zr alloys via differential-thermal extrusion. <i>Materials Characterization</i> , 2017 , 131, 380-387	3.9	34
112	Effects of Zr and Mn additions on formation of LPSO structure and dynamic recrystallization behavior of Mg-15Gd-1Zn alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 692, 805-816	5.7	53
111	On grain coarsening and refining of the MgBAl alloy by Sm. <i>Journal of Alloys and Compounds</i> , 2016 , 663, 387-394	5.7	24
110	On the role of Ag in enhanced age hardening kinetics of Mg@dAg@r alloys. <i>Philosophical Magazine Letters</i> , 2016 , 96, 212-219	1	27
109	Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of NiMn films prepared in ionic liquid. <i>Applied Surface Science</i> , 2016 , 365, 31-37	6.7	22
108	Influence of processing parameters on thermal field in MgNdInIr alloy during friction stir processing. <i>Materials and Design</i> , 2016 , 94, 186-194	8.1	21
107	Damage morphology study of high cycle fatigued as-cast MgB.0NdD.2ZnZr (wt.%) alloy. <i>Materials Characterization</i> , 2016 , 111, 93-105	3.9	12
106	Formation of lamellar phase with 18R-type LPSO structure in an as-cast Mg96Gd3Zn1(at%) alloy. <i>Materials Letters</i> , 2016 , 169, 168-171	3.3	35
105	The effect of low cooling rates on dendrite morphology during directional solidification in Mg G d alloys: In situ X-ray radiographic observation. <i>Materials Letters</i> , 2016 , 163, 218-221	3.3	15
104	Improved tensile properties of a new aluminum alloy for high pressure die casting. <i>Materials Science & Microstructure and Processing</i> , 2016 , 651, 376-390	5.3	20
103	Fatigue Properties of Cast Magnesium Wheels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4239-4257	2.3	8
102	Heat treatment and mechanical properties of a high-strength cast Mgtddn alloy. <i>Materials Science & Materials A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 745-752	5-3	48
101	Size Effect on Magnesium Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 2686-2704	2.3	5
100	Fabrication of a bulk GdN nanoparticles-reinforced Mg-Gd matrix nanocomposite with phenomenal mechanical properties. <i>Materials Letters</i> , 2016 , 185, 127-130	3.3	4

99	Tensile crack initiation behavior of cast MgBNdD.2ZnD.5Zr magnesium alloy. <i>Materials Science & Materials Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2016 , 673, 458-466	5.3	7
98	Fatigue strength dependence on the ultimate tensile strength and hardness in magnesium alloys. International Journal of Fatigue, 2015, 80, 468-476	5	42
97	Microstructure evolution and mechanical properties of Mg-Gd-Sm-Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 223-229	5.3	37
96	Fatigue behavior and life prediction of cast magnesium alloys. <i>Materials Science & Desired Regineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 647, 113-126	5.3	23
95	On the production of Mg-Nd master alloy from NdFeB magnet scraps. <i>Journal of Materials Processing Technology</i> , 2015 , 218, 57-61	5.3	19
94	Formation of denuded zones in crept Mga.5Gda.1Zr alloy. <i>Acta Materialia</i> , 2015 , 84, 317-329	8.4	23
93	Experimental investigation and thermodynamic assessment of the MgttdAg system focused on Mg-rich region. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015 , 48, 43-54	1.9	7
92	Effects of Sm on the grain refinement, microstructures and mechanical properties of AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2015 , 620, 89-96	5.3	37
91	Phase-field modeling the effect of misfit on the precipitation of the second-phase particles and grain coarsening. <i>Computational Materials Science</i> , 2015 , 100, 166-172	3.2	5
90	Study on the interfacial heat transfer coefficient between AZ91D magnesium alloy and silica sand. <i>Experimental Thermal and Fluid Science</i> , 2014 , 54, 196-203	3	17
89	Microstructure evolution and mechanical properties of an ultra-high strength casting MgII5.6GdII.8AgII.4Zr alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 703-711	5.7	73
88	Improvement in grain refinement efficiency of MgØr master alloy for magnesium alloy by friction stir processing. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 239-244	8.8	24
87	High cycle fatigue properties of cast MgNdD.2ZnDr alloys. <i>Journal of Materials Science</i> , 2014 , 49, 7105-7115	4.3	21
86	Effects of Alloying Elements on Creep Properties of Mg-Gd-Zr Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 4103-4116	2.3	14
85	Linear precipitate chains in Mg-2.4Gd-0.1Zr alloy after creep. <i>Materials Letters</i> , 2014 , 137, 417-420	3.3	27
84	Effect of temperature-induced solute distribution on stacking fault energy in $MgX(X = Li, Cu, Zn, Al, Y and Zr)$ solid solution: a first-principles study. <i>Philosophical Magazine</i> , 2014 , 94, 1578-1587	1.6	25
83	Effects of intermediate frequency magnetic field on the solution treatment of Mgtd alloy. <i>Materials Letters</i> , 2014 , 123, 238-241	3.3	10
82	Electrodeposition mechanism and characterization of Nitu alloy coatings from a eutectic-based ionic liquid. <i>Applied Surface Science</i> , 2014 , 288, 530-536	6.7	67

81	High cycle fatigue improvement by heat-treatment for semi-continuous casting Mg96.34Gd2.5Zn1Zr0.16 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 604, 78-85	5.3	16
80	Effects of Mn addition on the microstructure and mechanical properties of cast MgBAlaSn (wt.%) alloy. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 27-35	8.8	24
79	High cycle fatigue behaviors of low pressure cast MgBNdD.2ZnDZr alloys. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 170-176	5.3	15
78	Characterization of highly corrosion-resistant nanocrystalline Ni coating electrodeposited on MgNdInIr alloy from a eutectic-based ionic liquid. <i>Applied Surface Science</i> , 2014 , 313, 711-719	6.7	24
77	Strengthening mechanisms in solution treated MgJINdIZnIZr alloy. <i>Journal of Materials Science</i> , 2013 , 48, 6367-6376	4.3	12
76	High Cycle Fatigue of Cast Mg-3Nd-0.2Zn Magnesium Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 5202-5215	2.3	27
75	Ab initio study of the effect of solute atoms Zn and Y on stacking faults in Mg solid solution. <i>Physica B: Condensed Matter</i> , 2013 , 416, 39-44	2.8	41
74	Microstructures and mechanical properties of friction stir processed Mg🛭.0Nd🗓.3Zn🗓.0Zr magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2013 , 1, 122-127	8.8	44
73	Modification of long period stacking ordered phase and improvement of mechanical properties of Mgtdlntr alloy by friction stir processing. <i>Materials Letters</i> , 2013 , 113, 206-209	3.3	18
72	Influence of solution temperature on fatigue behavior of AM-SC1 cast magnesium alloy. <i>Materials Science & Microstructure and Processing</i> , 2013 , 565, 250-257	5.3	15
71	High cycle fatigue behavior of as-cast Mg96.34Gd2.5Zn1Zr0.16 alloy fabricated by semi-continuous casting. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 72-78	5.3	11
70	Microstructure and strengthening mechanism of a thermomechanically treated MgIIOGdBYIISnII.5Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 565, 262-268	5.3	24
69	Comparison of high cycle fatigue behaviors of MgBNdD.2ZnDr alloy prepared by different casting processes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 579, 170-179	5.3	23
68	Effects of grain size and heat treatment on the tensile properties of MgBNdD.2Zn (wt%) magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2013 , 564, 450-460	5.3	28
67	Improved high cycle fatigue properties of a new magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 170-177	5.3	24
66	Formation and characterization of microstructure of as-cast MgBGdBY\\Zn\\D.5Zr (x = 0.3, 0.5 and 0.7 wt.%) alloys. <i>Materials Characterization</i> , 2013 , 79, 93-99	3.9	25
65	Ab initio study of I2 and T2 stacking faults in C14 Laves phase MgZn2. <i>European Physical Journal B</i> , 2013 , 86, 1	1.2	9
64	Microstructure modification and performance improvement of Mg-RE alloys by friction stir processing 2013 , 191-196		1

(2011-2012)

63	Science & Science and Processing, 2012 , 543, 12-21	5.3	39
62	Elastic properties and electronic structures of typical Al©e structures from first-principles calculations. <i>Solid State Sciences</i> , 2012 , 14, 555-561	3.4	26
61	Solidification Microstructure and Mechanical Properties of Cast Magnesium-Aluminum-Tin Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 360-368	2.3	59
60	Ab-initio study of the effect of rare-earth elements on the stacking faults of Mg solid solutions. <i>Intermetallics</i> , 2012 , 29, 21-26	3.5	47
59	Preparation of superhydrophobic silica film on MgNdInIr magnesium alloy with enhanced corrosion resistance by combining micro-arc oxidation and soligel method. <i>Surface and Coatings Technology</i> , 2012 , 213, 192-201	4.4	67
58	Ignition-proof properties of a high-strength Mg-Gd-Ag-Zr alloy. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2012 , 17, 643-647	0.6	10
57	Stacking faults in B2-structured magnesium alloys from first principles calculations. <i>Computational Materials Science</i> , 2011 , 50, 3198-3207	3.2	10
56	Crystal structure of the mirror symmetry 10H-type long-period stacking order phase in MgNIn alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 669-674	5.7	19
55	Structural, elastic and electronic properties of Mg(Cu1\(\textbf{N}Znx\)2 alloys calculated by first-principles. Journal of Alloys and Compounds, 2011 , 509, 2885-2890	5.7	18
54	Thermodynamic modeling and experimental investigation of the magnesiumBeodymiumBinc alloys. <i>Intermetallics</i> , 2011 , 19, 1720-1726	3.5	23
53	Microstructure of 18R-type long period ordered structure phase in Mg97Y2Zn1 alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2011 , 21, 801-806	3.3	9
52	Optimization of Magnesium-Aluminum-Tin Alloys for As-Cast Microstructure And Mechanical Properties 2011 , 161-165		
51	Generalized planner fault energies, twinning and ductility of L12 type Al3Sc and Al3Mg. <i>Solid State Sciences</i> , 2011 , 13, 120-125	3.4	24
50	Texture and mechanical behavior evolution of age-hardenable MgNdIn extrusions during aging treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 529, 151-155	5.3	16
49	First-principles study of long-period stacking ordered-like multi-stacking fault structures in pure magnesium. <i>Scripta Materialia</i> , 2011 , 64, 942-945	5.6	41
48	Interaction between stacking faults in pure Mg. European Physical Journal B, 2011 , 82, 143-146	1.2	11
47	Study on microstructure of squeeze casting AZ91D alloy. <i>Materials Science and Technology</i> , 2011 , 27, 189-193	1.5	12
46	Theoretical investigation of new type of ternary magnesium alloys AMgNi4 (A=Y, La, Ce, Pr and Nd). <i>Physica B: Condensed Matter</i> , 2011 , 406, 1330-1335	2.8	15

45	Study of the structural, elastic and electronic properties of ordered Ca(Mg1\(\text{M}\)Lix)2alloys from first-principles calculations. <i>Physica Scripta</i> , 2011 , 84, 055603	2.6	4
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35	LPSO STRUCTURE AND AGING PHASES IN MgGdZnZr ALLOY. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010 , 46, 1041-1046		19
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26	A systematic investigation of stacking faults in magnesium via first-principles calculation. <i>European Physical Journal B</i> , 2009 , 72, 397-403	1.2	63
25	Thermodynamic and electronic properties of quaternary hydrides LixNa1⊠MgH3. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 522-526	5.7	15
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23	The microstructure evolution with lamellar 14H-type LPSO structure in an Mg96.5Gd2.5Zn1 alloy during solid solution heat treatment at 773K. <i>Journal of Alloys and Compounds</i> , 2009 , 477, 193-197	5.7	119
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