Xiaoqin Zeng

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#	Paper	IF	Citations
280	Microstructure and strengthening mechanism of high strength Mgfl0Gdf2Yf0.5Zr alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 427, 316-323	5.7	517
279	Precipitation in a Mgfl0GdBYfl.4Zr (wt.%) alloy during isothermal ageing at 250flC. <i>Journal of Alloys and Compounds</i> , 2006 , 421, 309-313	5.7	335
278	Microstructure evolution in a MgII5GdII.5Zr (wt.%) alloy during isothermal aging at 250°LC. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006, 431, 322-327	5.3	265
277	Effects of rare earths on the microstructure, properties and fracture behavior of MgAl alloys. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2000, 278, 66-76	5.3	239
276	Effects of yttrium on microstructure and mechanical properties of hot-extruded Mg᠒n᠒᠒r alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 373, 320-327	5.3	188
275	Fracture behavior of AZ91 magnesium alloy. <i>Materials Letters</i> , 2000 , 44, 265-268	3.3	161
274	Effect of Nd and Y addition on microstructure and mechanical properties of as-cast Mg@n@r alloy. Journal of Alloys and Compounds, 2007, 427, 115-123	5.7	136
273	Equal-channel angular pressing of magnesium alloy AZ91 and its effects on microstructure and mechanical properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 113-116	5.3	123
272	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
271	Precipitation behavior and mechanical properties of a MgInIII alloy processed by thermo-mechanical treatment. <i>Journal of Alloys and Compounds</i> , 2005 , 395, 213-219	5.7	115
270	Microstructure evolution of MgIIOGdBYII.2ZnII.4Zr alloy during heat-treatment at 773 K. <i>Journal of Alloys and Compounds</i> , 2009 , 468, 164-169	5.7	109
269	Comparison of the microstructure and mechanical properties of a ZK60 alloy with and without 1.3wt.% gadolinium addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 433, 175-181	5.3	109
268	Effect of strontium on the microstructure, mechanical properties, and fracture behavior of AZ31 magnesium alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 1333-1341	2.3	107
267	Effects of RE on the microstructure and mechanical properties of MgBZnAAl magnesium alloy. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2006, 416, 109-118	5.3	103
266	Precipitation and its effect on the mechanical properties of a cast MgtdNdIr alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 489, 44-54	5.3	102
265	Influence of Mg17Al12 intermetallic compounds on the hot extruded microstructures and mechanical properties of MgBAldZn alloy. <i>Materials Science & Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 466, 134-139	5.3	98
264	Study on the hydrogen storage properties of coreShell structured MgRE (REI=INd, Gd, Er) nano-composites synthesized through arc plasma method. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 2337-2346	6.7	93

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263	Mechanical properties and microstructure of AZ31 Mg alloy processed by two-step equal channel angular extrusion. <i>Materials Letters</i> , 2005 , 59, 2267-2270	3.3	88
262	Microstructure evolution of AZ31 Mg alloy during equal channel angular extrusion. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 423, 247-252	5.3	83
261	Formation of a lamellar 14H-type long period stacking ordered structure in an as-cast Mg@d@n@r alloy. <i>Journal of Materials Science</i> , 2009 , 44, 1607-1612	4.3	76
260	The influence of heat treatment on damping response of AZ91D magnesium alloy. <i>Materials Science & Microstructure and Processing</i> , 2005 , 392, 150-155	5.3	76
259	Improving ductility of a Mg alloy via non-basal slip induced by Ca addition. <i>International Journal of Plasticity</i> , 2019 , 120, 164-179	7.6	75
258	Low cycle fatigue of a rare-earth containing extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 575, 65-73	5.3	74
257	Formation of 14H-type long period stacking ordered structure in the as-cast and solid solution treated Mg-Gd-Zn-Zr alloys. <i>Journal of Materials Research</i> , 2009 , 24, 1842-1854	2.5	71
256	Behavior of surface oxidation on molten MgBAlD.5ZnD.3Be alloy. <i>Materials Science & amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001 , 301, 154-161	5.3	67
255	Effect of rare earth elements on deformation behavior of an extruded MgfI0GdBYf0.5Zr alloy during compression. <i>Materials & Design</i> , 2013 , 46, 411-418		65
254	Influence of strong static magnetic field on intermediate phase growth in MgAl diffusion couple. <i>Journal of Alloys and Compounds</i> , 2007 , 440, 132-136	5.7	64
253	Effects of tantalum ion implantation on the corrosion behavior of AZ31 magnesium alloys. <i>Journal of Alloys and Compounds</i> , 2007 , 437, 87-92	5.7	63
252	Study on ignition proof magnesium alloy with beryllium and rare earth additions. <i>Scripta Materialia</i> , 2000 , 43, 403-409	5.6	62
251	Early oxidation behaviors of MgN alloys at high temperatures. <i>Journal of Alloys and Compounds</i> , 2008 , 460, 368-374	5.7	61
250	The effects of yttrium element on microstructure and mechanical properties of MgBwt.% ZnDwt.% Al alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 402, 142-148	5.3	60
249	Experimental and numerical study of warm deep drawing of AZ31 magnesium alloy sheet. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 436-443	9.4	59
248	Study on hydrogen storage properties of Mg nanoparticles confined in carbon aerogels. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 5302-5308	6.7	57
247	Study of slip activity in a Mg-Y alloy by in situ high energy X-ray diffraction microscopy and elastic viscoplastic self-consistent modeling. <i>Acta Materialia</i> , 2018 , 155, 138-152	8.4	57
246	Hydrogen Storage Properties of a MgNi Nanocomposite Coprecipitated from Solution. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18401-18411	3.8	56

245	Deformation behavior and dynamic recrystallization of a MgInMIr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 91-97	5.3	53
244	Preparation and hydrogen sorption properties of a Ni decorated Mg based Mg@Ni nano-composite. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 1820-1828	6.7	52
243	Effects of yttrium and zinc addition on the microstructure and mechanical properties of MgMZn alloys. <i>Journal of Materials Science</i> , 2010 , 45, 2510-2517	4.3	51
242	Wear behavior of nanocrystalline structured magnesium alloy induced by surface mechanical attrition treatment. <i>Surface and Coatings Technology</i> , 2015 , 261, 219-226	4.4	49
241	Effect of pre-deformation on aging characteristics and mechanical properties of a Mg@dMd@r alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 491, 103-109	5.3	49
240	Behavior of MgBAl\(\mathbb{B}\)Si alloys during solution heat treatment at 420°C. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001 , 301, 255-258	5.3	49
239	NaBH4 in "Graphene Wrapper:" Significantly Enhanced Hydrogen Storage Capacity and Regenerability through Nanoencapsulation. <i>Advanced Materials</i> , 2015 , 27, 5070-4	24	48
238	Grain Refinement of AZ31 Magnesium Alloy by Titanium and Low-Frequency Electromagnetic Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 1358-1366	2.3	48
237	Microstructure and mechanical properties of ultrafine grained Mg97Y2Zn1 alloy processed by equal channel angular pressing. <i>Journal of Alloys and Compounds</i> , 2007 , 440, 94-100	5.7	48
236	Characterization of ceramic PVD thin films on AZ31 magnesium alloys. <i>Applied Surface Science</i> , 2006 , 252, 7422-7429	6.7	48
235	Improving corrosion resistance of titanium-coated magnesium alloy by modifying surface characteristics of magnesium alloy prior to titanium coating deposition. <i>Scripta Materialia</i> , 2009 , 61, 26	9-5292	47
234	Effect of heat treatment on the tensile behavior of selective laser melted Ti-6Al-4V by in situ X-ray characterization. <i>Acta Materialia</i> , 2020 , 189, 93-104	8.4	43
233	Effects of Nd on the microstructure of ZA52 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 229-234	5.3	43
232	Hydrogen storage properties of MgIIMIIa (TMI=ITi, Fe, Ni) ternary composite powders prepared through arc plasma method. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 8852-8862	6.7	42
231	Microstructural characterisation of as cast and homogenised Mg@dMd@r alloys. <i>Materials Science and Technology</i> , 2008 , 24, 320-326	1.5	42
230	Room temperature deformation of LPSO structures by non-basal slip. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 354-358	5.3	41
229	Microstructure evolution and mechanical properties of an Mgtd alloy subjected to surface mechanical attrition treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 630, 146-154	5.3	41
228	Influence of Anion Charge on Li Ion Diffusion in a New Solid-State Electrolyte, Li3LaI6. <i>Chemistry of Materials</i> , 2019 , 31, 7425-7433	9.6	41

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227	First-principles study of structural stabilities and electronic characteristics of Mg[la intermetallic compounds. <i>Computational Materials Science</i> , 2007 , 41, 78-85	3.2	40	
226	Observation of non-basal slip in Mg-Y by in situ three-dimensional X-ray diffraction. <i>Scripta Materialia</i> , 2018 , 143, 44-48	5.6	39	
225	Effect of solute atoms and second phases on the thermal conductivity of Mg-RE alloys: A quantitative study. <i>Journal of Alloys and Compounds</i> , 2018 , 747, 431-437	5.7	38	
224	The corrosion behavior of Ce-implanted magnesium alloys. <i>Materials Characterization</i> , 2008 , 59, 618-62	33.9	38	
223	Effect of precipitation aging on the fracture behavior of MgII1GdIINdII.4Zr cast alloy. <i>Materials Characterization</i> , 2008 , 59, 857-862	3.9	38	
222	Effect of thermo-mechanical treatment on the microstructure and mechanical properties of a MgBGdDNdD.5Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 454-455, 314-321	5.3	38	
221	Theoretical investigation of typical fcc precipitates in Mg-based alloys. Acta Materialia, 2008, 56, 3353-	338547	38	
220	Mechanical, electronic and thermodynamic properties of C14-type AMg2 (A=Ca, Sr and Ba) compounds from first principles calculations. <i>Computational Materials Science</i> , 2015 , 97, 75-85	3.2	37	
219	Synthesis and hydrogen storage properties of core\(\bar{B}\)hell structured binary Mg@Ti and ternary Mg@Ti@Ni composites. International Journal of Hydrogen Energy, 2017 , 42, 2239-2247	6.7	37	
218	Numerical simulation of low pressure die casting of magnesium wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 32, 257-264	3.2	37	
217	Effect of low-frequency electromagnetic field on microstructures and macrosegregation of \$\mathbb{Q}70\$ mm DC ingots of an Al\$\mathbb{Z}nMg\mathbb{Z}u\mathbb{Z}r alloy. Materials Letters, 2005, 59, 1502-1506	3.3	37	
216	Basal-plane stacking-fault energies of Mg alloys: A first-principles study of metallic alloying effects. Journal of Materials Science and Technology, 2018 , 34, 1773-1780	9.1	36	
215	Hydrogen storage properties of nanocrystalline Mg2Ni prepared from compressed 2MgH2Ni powder. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22391-22400	6.7	36	
214	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	
213	Preparation and characterization of ceramic/metal duplex coatings deposited on AZ31 magnesium alloy by multi-magnetron sputtering. <i>Materials Letters</i> , 2006 , 60, 674-678	3.3	35	
212	Characterization of precipitate phases in a MgDytdtNd alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 439, 254-257	5.7	35	
211	Characterization of phases in a MgBGdBSmD.4Zr (wt.%) alloy during solution treatment. <i>Materials Characterization</i> , 2009 , 60, 555-559	3.9	34	
210	Characterization of dynamic recrystallisation in as-homogenized MgInIII alloy using processing map. <i>Journal of Materials Science</i> , 2006 , 41, 3603-3608	4.3	33	

209	Highly deformable MgAlta alloy with Al2Ca precipitates. Acta Materialia, 2020, 200, 236-245	8.4	33
208	Hydrogen storage properties of core-shell structured Mg@TM (TM⊫Co, V) composites. International Journal of Hydrogen Energy, 2017 , 42, 15246-15255	6.7	32
207	Hydrogen storage and hydrolysis properties of core-shell structured Mg-MFx (M=V, Ni, La and Ce) nano-composites prepared by arc plasma method. <i>Journal of Power Sources</i> , 2017 , 366, 131-142	8.9	32
206	Efficient Absorption of CO2 by Introduction of Intramolecular Hydrogen Bonding in Chiral Amino Acid Ionic Liquids. <i>Energy & Energy & 2018</i> , 32, 6130-6135	4.1	32
205	A comparison study of MgM2O3 and MgM hydrogen storage composite powders prepared through arc plasma method. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S684-S688	5.7	32
204	Deformation mechanisms, activated slip systems and critical resolved shear stresses in an Mg-LPSO alloy studied by micro-pillar compression. <i>Materials and Design</i> , 2018 , 154, 203-216	8.1	32
203	Hydrogen storage properties of a Mg-La-Fe-H nano-composite prepared through reactive ball milling. <i>Journal of Alloys and Compounds</i> , 2017 , 701, 208-214	5.7	31
202	Nano-scale precipitation and phase growth in Mg-Gd binary alloy: An atomic-scale investigation using HAADF-STEM. <i>Materials and Design</i> , 2018 , 137, 316-324	8.1	31
201	Study on Fe reduction in AZ91 melt by B2O3. <i>Materials Science & Discourse A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 368, 311-317	5.3	31
200	Visualization of fast flydrogen pumplin corelihell nanostructured Mg@Pt through hydrogen-stabilized Mg3Pt. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14629-14637	13	30
199	Mechanisms of reversible hydrogen storage in NaBH4 through NdF3 addition. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3983	13	30
198	A high-strength extruded Mg-Gd-Zn-Zr alloy with superplasticity. <i>Journal of Materials Research</i> , 2009 , 24, 3596-3602	2.5	30
197	First-principles study of the electronic structure and mechanical properties of CaMg2 Laves phase. <i>Materials Science & Discourse and Processing</i> , 2008 , 489, 444-450	5.3	30
196	Effect of initial temper on the creep behavior of a MgtddNdIr alloy. <i>Materials Science & amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 185-190	5.3	30
195	An electron back-scattered diffraction study on the microstructure evolution of AZ31 Mg alloy during equal channel angular extrusion. <i>Journal of Alloys and Compounds</i> , 2006 , 426, 148-154	5.7	30
194	Effect of Nd content and heat treatment on the thermal conductivity of Mg Nd alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 114-121	5.7	29
193	Influence of 3d transition metals on the stability and electronic structure of MgH2. <i>Journal of Applied Physics</i> , 2012 , 111, 093720	2.5	29
192	First-principles Calculations of Strengthening Compounds in Magnesium Alloy: A General Review. Journal of Materials Science and Technology, 2016 , 32, 1222-1231	9.1	29

191	Preparation and hydrogen storage properties of MgH2-trimesic acid-TM MOF (TM=Co, Fe) composites. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2132-2143	9.1	28	
190	Preparation and hydrogen sorption properties of a nano-structured Mg based Mg[lat] composite. International Journal of Hydrogen Energy, 2012, 37, 13067-13073	6.7	28	
189	Early high temperature oxidation behaviors of Mgfl0GdBY alloys. <i>Journal of Alloys and Compounds</i> , 2009 , 474, 499-504	5.7	28	
188	High strength extruded MgBZnDNdD.5YD.6ZrD.4Ca alloy produced by electromagnetic casting. <i>Materials Letters</i> , 2005 , 59, 2549-2554	3.3	28	
187	Reversible hydrogen storage in a 3NaBH4/YF3 composite. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17118-17125	6.7	27	
186	Twinning behavior and lattice rotation in a MgCdMZr alloy under ballistic impact. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 622-632	5.7	26	
185	A co-precipitated MgIII nano-composite with high capacity and rapid hydrogen absorption kinetics at room temperature. <i>RSC Advances</i> , 2014 , 4, 42764-42771	3.7	26	
184	Low cycle fatigue of an extruded MgBNdD.2ZnD.5Zr magnesium alloy. <i>Materials & Design</i> , 2014 , 64, 63-73		26	
183	Cyclic Deformation Behavior of a Rare-Earth Containing Extruded Magnesium Alloy: Effect of Heat Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 1168-1187	2.3	26	
182	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy. Journal of Materials Science, 2004 , 39, 7061-7066	4.3	26	
181	Study on hydrogen storage properties of Mg $\mathbb R$ (X = Fe, Co, V) nano-composites co-precipitated from solution. <i>RSC Advances</i> , 2015 , 5, 7687-7696	3.7	25	
180	Microstructure evolution and mechanical properties of magnesium alloys containing long period stacking ordered phase. <i>Materials Characterization</i> , 2018 , 141, 286-295	3.9	25	
179	Effect of strain ratio on cyclic deformation behavior of a rare-earth containing extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 250-259	5.3	25	
178	Nanostructured bulk Mg + MgO composite synthesized through arc plasma evaporation and high pressure torsion for H-storage application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014 , 183, 1-5	3.1	25	
177	Yttrium ion implantation on the surface properties of magnesium. <i>Applied Surface Science</i> , 2006 , 253, 2437-2442	6.7	25	
176	Understanding the High Strength and Good Ductility in LPSO-Containing Mg Alloy Using Synchrotron X-ray Diffraction. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 5382-5392	2.3	25	
175	Investigation of the alloying effect on deformation behavior in Mg by Visco-Plastic Self-Consistent modeling. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 210-218	8.8	23	
174	Enhanced hydrogenation and hydrolysis properties of core-shell structured Mg-MOx (M = Al, Ti and Fe) nanocomposites prepared by arc plasma method. <i>Chemical Engineering Journal</i> , 2019 , 371, 233-243	14.7	22	

173	Structural, electronic and thermodynamic properties of BiF3-type Mg3Gd compound: A first-principle study. <i>Physica B: Condensed Matter</i> , 2014 , 432, 33-39	2.8	22
172	Microstructure and Mechanical Properties of Mg-7Al-2Sn Alloy Processed by Super Vacuum Die-Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 4788-4799	2.3	22
171	Preparation and hydrogen storage properties of ultrafine pure Mg and MgIIi particles. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 1849-1854	3.3	22
170	Crystal structure, energetics, and phase stability of strengthening precipitates in Mg alloys: A first-principles study. <i>Acta Materialia</i> , 2018 , 158, 65-78	8.4	20
169	Using CoS cathode materials with 3D hierarchical porosity and an ionic liquid (IL) as an electrolyte additive for high capacity rechargeable magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18880-18888	13	20
168	Reversible hydrogen sorption in NaBH4 at lower temperatures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13510	13	20
167	Formation by reactive magnetron sputtering of TiN coating on Ti-implanted magnesium alloy. <i>Materials Letters</i> , 2006 , 60, 2252-2255	3.3	20
166	Predictions of mechanical and thermodynamic properties of Mg17Al12 and Mg2Sn from first-principles calculations. <i>Philosophical Magazine</i> , 2015 , 95, 1626-1645	1.6	19
165	Dry Sliding Wear Behavior of Mg-Zn-Gd Alloy before and after Cryogenic Treatment. <i>Tribology Transactions</i> , 2014 , 57, 275-282	1.8	19
164	Effect of Si on the precipitation behavior of Mg-6Al alloy. <i>Journal of Materials Science Letters</i> , 2001 , 20, 397-399		19
163	LPSO STRUCTURE AND AGING PHASES IN MgGdZnZr ALLOY. <i>Jinshu Xuebao/Acta Metallurgica Sinica</i> , 2010 , 46, 1041-1046		19
162	Effects of La fluoride and La hydride on the reversible hydrogen sorption behaviors of NaBH4: a comparative study. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8557-8570	13	18
161	High temperature compressive deformation behavior of an extruded MgBGdBYD.5Zr (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 526, 150-155	5.3	18
160	Hydrogen storage properties of a MgITe oxide nano-composite prepared through arc plasma method. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S167-S170	5.7	17
159	Preparation of LaMgNi4-xCox alloys and hydrogen storage properties. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 2307-2311	3.3	17
158	Microstructure and mechanical properties of MgBGdBYD.5Zr alloy processed by high-vacuum die-casting. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3769-3776	3.3	17
157	A modified Johnson-Cook constitutive relationship for a rare-earth containing magnesium alloy. <i>Journal of Rare Earths</i> , 2013 , 31, 1202-1207	3.7	16
156	Carbon aerogel supported PtIn catalyst and its oxygen reduction catalytic performance in magnesium-air batteries. <i>Journal of Materials Research</i> , 2014 , 29, 2863-2870	2.5	16

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155	Effects of trimesic acid-Ni based metal organic framework on the hydrogen sorption performances of MgH2. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 29235-29248	6.7	15	
154	Microstructural evolution and mechanical properties of Mg95.5Y3Zn1.5 alloy processed by extrusion and ECAP. <i>Metals and Materials International</i> , 2014 , 20, 285-290	2.4	15	
153	Preparation and Hydrogen Storage Properties of Mg-Rich Mg-Ni Ultrafine Particles. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-8	3.2	15	
152	Influence of heat treatment on microstructure and mechanical properties of Mg-10Gd-3Y-1.2Zn-0.4Zr alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, s117-s121	3.3	15	
151	First-principles calculations and experimental studies of XYZ2 thermoelectric compounds: detailed analysis of van der Waals interactions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19502-19519	13	15	
150	Revealing slip-induced extension twinning behaviors dominated by micro deformation in a magnesium alloy. <i>International Journal of Plasticity</i> , 2020 , 128, 102669	7.6	14	
149	Effect of heat treatment on microstructures and mechanical properties of high vacuum die casting MgBGdBYD.4Zr magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3762-376	58 ^{3.3}	14	
148	Effects of Cu and Mn on mechanical properties and damping capacity of Mg-Cu-Mn alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2008 , 18, s55-s58	3.3	14	
147	Microstructural evolution of AZ61 magnesium alloy during hot deformation. <i>Materials Science and Technology</i> , 2004 , 20, 1397-1402	1.5	14	
146	Hydrogen storage in Mg2Fe(Ni)H6 nanowires synthesized from coarse-grained Mg and nano sized Fe(Ni) precursors. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 14795-14806	6.7	14	
145	Study of age hardening in a MgI.2 wt%Nd alloy by in situ synchrotron X-ray diffraction and mechanical tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 708, 319-328	5.3	13	
144	Effect of Al Content on Hot-Tearing Susceptibility of Mg-10Zn-xAl Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1897-1910	2.3	13	
143	Influence of twinning-induced recrystallization on texture evolution in a high strain rate compressed Mg-Zn alloy. <i>Materials Characterization</i> , 2020 , 162, 110192	3.9	13	
142	Microstructure investigation of the 6H-type long-period stacking order phase in Mg97Y2Zn1 alloy. <i>Scripta Materialia</i> , 2008 , 58, 807-810	5.6	13	
141	Grain-scale deformation in a MgD.8 wt% Y alloy using crystal plasticity finite element method. Journal of Materials Science and Technology, 2019 , 35, 2200-2206	9.1	12	
140	Hydrogen storage properties of nanostructured 2MgH2Co powders: The effect of high-pressure compression. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 15146-15158	6.7	12	
139	First principles investigation of E-short and E-long in MgCd alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 671, 177-183	5.7	12	
138	Understanding the Strengthening Effect of 🛭 Precipitates in Mg-Nd Using In Situ Synchrotron X-ray Diffraction. <i>Jom</i> , 2018 , 70, 2315-2320	2.1	12	

137	Effects of REF3 (REI≢IY, La, Ce) additives on dehydrogenation properties of LiAlH4. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11642-11650	6.7	12
136	Effects of LnF3 on reversible and cyclic hydrogen sorption behaviors in NaBH4: electronic nature of Ln versus crystallographic factors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4493-4500	13	12
135	Study on reversible hydrogen sorption behaviors of 3NaBH4/HoF3 composite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 14275-14281	6.7	12
134	Structure and thermodynamic studies of the LaMgNi4 compound and its hydrides by density functional theory. <i>Intermetallics</i> , 2013 , 38, 30-35	3.5	12
133	Characterization of microstructure in high strength Mg96Y3Zn1 alloy processed by extrusion and equal channel angular pressing. <i>Journal of Rare Earths</i> , 2011 , 29, 902-906	3.7	12
132	Effect of pre-deformation on aging characteristics and mechanical properties of Mg-Gd-Nd-Zr alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2007 , 17, 1164-1168	3.3	12
131	Research on dynamic precipitation behavior of pre-solution treated MgBwt.% ZnDwt.% Al(Dwt.%Y) alloy during creep. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 424, 40-46	5.3	12
130	Origins of high ductility exhibited by an extruded magnesium alloy Mg-1.8Zn-0.2Ca: Experiments and crystal plasticity modeling. <i>Journal of Materials Science and Technology</i> , 2021 , 84, 27-42	9.1	12
129	Segregation of solute atoms in MgITe binary alloy: atomic-scale novel structures observed by HAADF-STEM. <i>Philosophical Magazine</i> , 2017 , 97, 1498-1508	1.6	11
128	Effect of Solid Solution Treatment on Microstructure and Mechanical Properties of Mg97Y2Zn1 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 523-527	1.6	11
127	Development of microstructure in solution-heat-treated Mg-5Al-xCa alloys. <i>International Journal of Materials Research</i> , 2003 , 94, 886-891		11
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125	First principles calculations on the influence of solute elements and chlorine adsorption on the anodic corrosion behavior of Mg (0001) surface. <i>Surface Science</i> , 2018 , 672-673, 68-74	1.8	10
124	Carbon supported nano PtMo alloy catalysts for oxygen reduction in magnesium ir batteries. <i>RSC Advances</i> , 2016 , 6, 83025-83030	3.7	10
123	Study on hydrogenation behaviors of a Mg-13Y alloy. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8303-8310	6.7	10
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121	Formation of a novel nanocrystalline coating on AZ31 magnesium alloy by bias sputtering. <i>Materials Letters</i> , 2007 , 61, 4019-4022	3.3	10
120	Enhanced ductility in high-pressure die casting Mg-4Ce-xAl-0.5Mn alloys via modifying second phase. <i>Materials Science & Discounty and Processing</i> , 2020 , 773, 138870	5.3	10

119	Solid solution strengthening mechanism in high pressure die casting AlleMg alloys. <i>Materials Science & Materials Properties, Microstructure and Processing</i> , 2021 , 812, 141109	5.3	10	
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114	Mechanisms of partial hydrogen sorption reversibility in a 3NaBH/ScF composite <i>RSC Advances</i> , 2018 , 8, 9211-9217	3.7	9	
113	Study of the dislocation activity in a MgM alloy by differential aperture X-ray microscopy. <i>Materials Characterization</i> , 2019 , 156, 109873	3.9	9	
112	Hydrogen storage properties of MgIliO2 composite powder prepared by arc plasma method. <i>Transactions of Nonferrous Metals Society of China</i> , 2014 , 24, 3834-3839	3.3	9	
111	Mechanical Properties and Creep Behavior of MgAlCa Alloys. <i>Materials Science Forum</i> , 2005 , 488-489, 763-766	0.4	9	
110	Hot deformation behavior and workability of pre-extruded ZK60A magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 1822-1830	3.3	8	
109	Characterization of I precipitate phase in a MgDylddld alloy. <i>Materials Characterization</i> , 2007 , 58, 1025-1028	3.9	8	
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105	Reversible hydrogen storage system of 3NaBH4-0.5ScF3-0.5YF3: The synergistic effect of ScF3 and YF3. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 1270-1276	5.7	7	
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98	Predicting Tensile Properties of AZ31 Magnesium Alloys by Machine Learning. <i>Jom</i> , 2020 , 72, 3935-39	42 _{2.1}	7
97	A novel high corrosion-resistant polytetrafluoroethylene/carbon cloth/Ag coating on magnesium alloys as bipolar plates for light-weight proton exchange membrane fuel cells. <i>Journal of Power Sources</i> , 2021 , 484, 229231	8.9	7
96	Deformation mechanisms of Mg-Ca-Zn alloys studied by means of micropillar compression tests. <i>Acta Materialia</i> , 2021 , 217, 117151	8.4	7
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92	Study on the Microstructure and Mechanical Property of High Strength Mg-Nd-Zn-Zr Alloy. <i>Materials Science Forum</i> , 2007 , 546-549, 433-436	0.4	6
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90	Deformation mechanism and dynamic precipitation in a Mg-7Al-2Sn alloy processed by surface mechanical attrition treatment. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1473-1478	9.1	6
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73	Effects of Variable La/Ce Ratio on Microstructure and Mechanical Properties of Mg-5Al-0.3Mn-1RE Alloys. <i>Materials Science Forum</i> , 2005 , 488-489, 231-234	0.4	4	
72	A New Low GWP Protective Atmosphere Containing HFC-152a for Molten Magnesium against Ignition. <i>Materials Science Forum</i> , 2005 , 488-489, 73-76	0.4	4	
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50	Cyclic Deformation Behavior of A Heat-Treated Die-Cast Al-Mg-Si-Based Aluminum Alloy. <i>Materials</i> , 2020 , 13,	3.5	2
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26	Alignment and strengthening effect of Il precipitates in Mg-Gd-Y-Zr during ageing process studied by HAADF-STEM and GPA. <i>Philosophical Magazine Letters</i> , 2022 , 102, 71-80	1	O
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10	Mechanical Behavior of Gas Tungsten Arc Surface Modified Composite Layer on Mg Alloy AZ31 with SiCp and Aluminum. <i>Materials Science Forum</i> , 2007 , 546-549, 485-490	0.4
9	Effect of Second-Phase Particles on Grain Refinement of Mg-Al-Zn Alloy during ECAE. <i>Materials Science Forum</i> , 2007 , 546-549, 315-318	0.4
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4	Flow Behavior and Hot Workability of Pre-Extruded AZ80 Magnesium Alloy119-125	
3	Phase Stability Investigation of the Mg-Zn-Sm System249-252	
2	Microstructure Evolution and Mechanical Behavior of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP at High Temperature511-516	
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