Xiaoqin Zeng

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.

280
papers

7,831
citations

46
p-index

9-index

4.6
ext. papers

4.6
avg, IF

L-index

#	Paper	IF	Citations
280	Role of Alloyed Sc on the Corrosion Behavior of Mg. <i>Metallurgical and Materials Transactions A:</i> Physical Metallurgy and Materials Science, 2022 , 53, 741-746	2.3	O
279	The role of grain boundary plane in slip transfer during deformation of magnesium alloys. <i>Acta Materialia</i> , 2022 , 227, 117662	8.4	2
278	Developing ductile and isotropic Ti alloy with tailored composition for laser powder bed fusion. <i>Additive Manufacturing</i> , 2022 , 52, 102656	6.1	O
277	Alignment and strengthening effect of 2 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	0
276	Micro-compression of Al2Ca particles in a Mg-Al-Ca alloy. <i>Materialia</i> , 2022 , 21, 101300	3.2	O
275	Unveiling the strengthening effect of LPSO phase in a Mg-Y-Zn alloy. <i>Materials Letters</i> , 2022 , 311, 13152	2 4 .3	0
274	Microstructure understanding of high Cr-Ni austenitic steel corrosion in high-temperature steam. <i>Acta Materialia</i> , 2022 , 226, 117634	8.4	4
273	Investigation of anodized Ta/Ag coating on magnesium bipolar plate for lightweight proton exchange membrane fuel cells. <i>Corrosion Science</i> , 2022 , 197, 110086	6.8	0
272	Influence of Al2Y particles on mechanical properties of Mg-11Y-1Al alloy with different grain sizes. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142166	5.3	1
271	Effect of Sc microalloying on microstructure evolution and mechanical properties of extruded Alan Mgau alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 831, 142197	5.3	4
270	Dislocation behavior in a polycrystalline Mg-Y alloy using multi-scale characterization and VPSC simulation. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 87-98	9.1	5
269	A hot tearing criterion based on solidification microstructure in cast alloys. <i>Journal of Materials Science and Technology</i> , 2022 , 105, 68-80	9.1	2
268	Mechanobiologically optimized Ti-35Nb-2Ta-3Zr improves load transduction and enhances bone remodeling in tilted dental implant therapy <i>Bioactive Materials</i> , 2022 , 16, 15-26	16.7	O
267	Cluster Hardening Effects on Twinning in Mg-Zn-Ca Alloys. <i>Metals</i> , 2022 , 12, 693	2.3	
266	Crystallographic features of axis tilt boundaries in a high strain rate deformed Mg9Y alloy. <i>Materials Characterization</i> , 2021 , 182, 111522	3.9	2
265	Dislocation-induced plastic instability in a rare earth containing magnesium alloy. <i>Materialia</i> , 2021 , 15, 101038	3.2	1
264	Unveiling precipitation behavior in Mg-Y based alloys. <i>Materials and Design</i> , 2021 , 202, 109570	8.1	4

(2021-2021)

263	Solid solution strengthening mechanism in high pressure die casting AlteMg alloys. <i>Materials Science & Microstructure and Processing</i> , 2021 , 812, 141109	5.3	10
262	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
261	Twin recrystallization mechanisms in a high strain rate compressed Mg-Zn alloy. <i>Journal of Magnesium and Alloys</i> , 2021 , 9, 499-504	8.8	10
260	Accelerated Development of High-Strength Magnesium Alloys by Machine Learning. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 943-954	2.3	6
259	Hot Tearing Behavior in Double Ternary Eutectic Alloy System: Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 789-805	2.3	2
258	Characterization on the formation of porosity and tensile properties prediction in die casting Mg alloys. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	2
257	Origin of twin-like {336[4} tilt boundary and associated solute segregation in a high strain rate deformed Mg-Y alloy. <i>Scripta Materialia</i> , 2021 , 201, 113982	5.6	1
256	The effect of basal dislocation on 112🛭 twin boundary evolution in a Mg-Gd-Y-Zr alloy. <i>Journal of Materials Science and Technology</i> , 2021 , 81, 212-218	9.1	4
255	First-principles study of water decomposition and hydrogen evolution on MgZn2 Laves phase. <i>Computational Materials Science</i> , 2021 , 196, 110532	3.2	O
254	Grain-size effect on the deformation of MgBAlBSn alloy: Experiments and elastic-viscoplastic self-consistent modeling. <i>International Journal of Plasticity</i> , 2021 , 143, 103018	7.6	3
253	Effect of Al content on microstructure, thermal conductivity, and mechanical properties of Mg[laAlMn alloys. <i>Journal of Materials Research</i> , 2021 , 36, 3145-3154	2.5	2
252	Investigation on the corrosion behavior of single-phase and binary-phase Mg-Sc alloys: An experimental and first-principles study. <i>Materials Characterization</i> , 2021 , 179, 111294	3.9	O
251	Deformation mechanisms of Mg-Ca-Zn alloys studied by means of micropillar compression tests. <i>Acta Materialia</i> , 2021 , 217, 117151	8.4	7
250	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
249	Revisiting the evolution behaviors of []phase in Mg-Nd and Mg-Y alloys. <i>Materials Letters</i> , 2021 , 305, 130857	3.3	O
248	Atomic-scale observation on the precipitates in various aging stages of Mgtdttu alloy. <i>Journal of Alloys and Compounds</i> , 2021 , 887, 161423	5.7	2
247	Obtaining I phase by addition of Mn in Mg-Gd-Y-Zn-Ni-Mn alloy: atomic-scale insights by scanning transmission electron microscopy. <i>Philosophical Magazine Letters</i> , 2021 , 101, 107-114	1	0
246	Activation of <c> dislocations in Mg with solute Y. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	2

245	Hot Tearing Behavior in Double Ternary Eutectic Alloy System: Mg-Ce-Al Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 6658-6669	2.3	3
244	Oxidation mechanism of molten AlBMgISiMn alloy. <i>Journal of Materials Science</i> , 2020 , 55, 12554-12567	4.3	2
243	Designing High Corrosion Resistant Peritectic Magnesium Alloys via Sc and Y Addition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 2509-2522	2.3	4
242	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
241	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
240	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
239	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
238	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
237	Study on the precipitates in various aging stages and composite strengthening effect of precipitates and long-period stacking ordered structure of MgCdMNi alloy. <i>Journal of Materials Research</i> , 2020 , 35, 172-184	2.5	1
236	Enhanced ductility in high-pressure die casting Mg-4Ce-xAl-0.5Mn alloys via modifying second phase. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 773, 138870	5.3	10
235	Highly deformable MgAlta alloy with Al2Ca precipitates. <i>Acta Materialia</i> , 2020 , 200, 236-245	8.4	33
234	Revealing the Subsurface Basal <a> Dislocation Activity in Magnesium Through Lattice Rotation Analysis. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i>, 2020, 51, 4414-4421	2.3	5
233	Thermodynamic assessment of the TiAlar system and atomic mobility of its bcc phase. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020 , 70, 101801	1.9	6
232	Microstructural evolution of Mg-Al-Re alloy reinforced with alumina fibers. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 565-577	8.8	3
231	Predicting Tensile Properties of AZ31 Magnesium Alloys by Machine Learning. <i>Jom</i> , 2020 , 72, 3935-3942	22.1	7
230	Cyclic Deformation Behavior of A Heat-Treated Die-Cast Al-Mg-Si-Based Aluminum Alloy. <i>Materials</i> , 2020 , 13,	3.5	2
229	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
228	Theoretical Analysis of the Galvanic Corrosion Behavior of Mg-Ge Binary Alloy. <i>Journal of the Electrochemical Society</i> , 2019 , 166, C421-C427	3.9	5

227	Predicting Twin Nucleation in a Polycrystalline Mg Alloy Using Machine Learning Methods. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019 , 50, 5543-556	62.3	9	
226	Grain-scale deformation in a MgI.8 wt% Y alloy using crystal plasticity finite element method. Journal of Materials Science and Technology, 2019, 35, 2200-2206	9.1	12	
225	Unexpected capture of Guinier-Preston zone and Il phase in as-cast Mg-Gd-Y-Zn-Ni-Mn alloy: Atomic-scale insights. <i>Materials Characterization</i> , 2019 , 153, 103-107	3.9	4	
224	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	
223	Visualization of fast flydrogen pumplin corelinell nanostructured Mg@Pt through hydrogen-stabilized Mg3Pt. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14629-14637	13	30	
222	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	
221	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	
220	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	
219	Microstructure and Tensile Properties of the Mg-6Zn-4Al-xSn Die Cast Magnesium Alloy. <i>Metals</i> , 2019 , 9, 113	2.3	0	
218	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	
217	Reversible hydrogen sorption behaviors of the 3NaBH4-(x)YF3-(1-x)GdF3 system: The effect of double rare earth metal cations. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 4868-4877	6.7	9	
216	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	
215	Enhanced hydrogen sorption properties of core-shell like structured Mg@NaBH4/MgB2 composite. Journal of Alloys and Compounds, 2019 , 810, 151763	5.7	7	
214	Surfactant induced formation of flower-like V2O5 microspheres as cathode materials for rechargeable magnesium batteries. <i>Ionics</i> , 2019 , 25, 5889-5897	2.7	5	
213	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	
212	Study of the dislocation activity in a MgN alloy by differential aperture X-ray microscopy. <i>Materials Characterization</i> , 2019 , 156, 109873	3.9	9	
211	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	
210	Quantitative Study of Microstructure-Dependent Thermal Conductivity in Mg-4Ce-xAl-0.5Mn Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 1970-198	34 ^{.3}	10	

209	On the strengthening precipitate structures in Mg-Gd-Ag alloy: An atomic-resolution investigation using Cs-corrected STEM. <i>Materials Letters</i> , 2019 , 238, 66-69	3.3	8
208	A high-throughput computation framework for generalized stacking fault energies of pure metals. <i>Computational Materials Science</i> , 2019 , 159, 357-364	3.2	8
207	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
206	Mechanisms of partial hydrogen sorption reversibility in a 3NaBH/ScF composite <i>RSC Advances</i> , 2018 , 8, 9211-9217	3.7	9
205	Unveiling the Interfaces between 2 Precipitates in MgCdCT Alloy: Insights from Atomic-Scale HAADF-STEM. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700730	3.5	1
204	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
203	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
202	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
201	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
200	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
199	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
198	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
197	Understanding the Strengthening Effect of 1 Precipitates in Mg-Nd Using In Situ Synchrotron X-ray Diffraction. <i>Jom</i> , 2018 , 70, 2315-2320	2.1	12
196	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
195	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
194	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
193	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
192	Hydrogen storage in MgNi(Fe)H nano particles synthesized from coarse-grained Mg and nano sized Ni(Fe) precursor <i>RSC Advances</i> , 2018 , 8, 18959-18965	3.7	6

(2016-2018)

191	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	
190	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	
189	Hydrogen storage properties of core-shell structured Mg@TM (TMŒCo, V) composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15246-15255	6.7	32	
188	Segregation of solute atoms in Mgte binary alloy: atomic-scale novel structures observed by HAADF-STEM. <i>Philosophical Magazine</i> , 2017 , 97, 1498-1508	1.6	11	
187	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	
186	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	
185	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	
184	Synthesis and hydrogen storage properties of corellhell structured binary Mg@Ti and ternary Mg@Ti@Ni composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 2239-2247	6.7	37	
183	Formation of a new incoherent twin boundary in a MgBGd alloy. <i>Scripta Materialia</i> , 2016 , 112, 136-139	5.6	10	
182	Carbon supported nano PtMo alloy catalysts for oxygen reduction in magnesium ir batteries. <i>RSC Advances</i> , 2016 , 6, 83025-83030	3.7	10	
181	HRTEM studies of aging precipitate phases in the Mg-10Gd-3Y-0.4Zr alloy. <i>Journal of Rare Earths</i> , 2016 , 34, 441-446	3.7	7	
180	Hot compressive deformation behaviors of MgIlOGdBYI.5Zr alloy. <i>Progress in Natural Science: Materials International</i> , 2016 , 26, 78-84	3.6	3	
179	Atomic relaxation, stability and electronic properties of Mg2Sn (100) surfaces from ab-initio calculations. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 62-67	8.8	7	
178	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	
177	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	
176	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	
175	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	
174	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	

173	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
172	Twinning behavior and lattice rotation in a Mg@dM@r alloy under ballistic impact. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 622-632	5.7	26
171	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
170	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
169	Study on reversible hydrogen sorption behaviors of 3LiBH4/graphene and 3LiBH4/graphene wt% CeF3 composites. <i>RSC Advances</i> , 2015 , 5, 82916-82923	3.7	7
168	Study on hydrogen storage properties of Mg $\&$ (X = Fe, Co, V) nano-composites co-precipitated from solution. <i>RSC Advances</i> , 2015 , 5, 7687-7696	3.7	25
167	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
166	Precipitation Sequence in a Mg-Sm-Zn-Zr Alloy 2015 , 367-372		
165	NaBH4 in "Graphene Wrapper:" Significantly Enhanced Hydrogen Storage Capacity and Regenerability through Nanoencapsulation. <i>Advanced Materials</i> , 2015 , 27, 5070-4	24	48
164	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
163	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
162	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
161	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
160	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
159	A co-precipitated MgII nano-composite with high capacity and rapid hydrogen absorption kinetics at room temperature. <i>RSC Advances</i> , 2014 , 4, 42764-42771	3.7	26
158	Hydrogen Storage Properties of a MgNi Nanocomposite Coprecipitated from Solution. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18401-18411	3.8	56
157	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
156	Low cycle fatigue of an extruded MgBNdD.2ZnD.5Zr magnesium alloy. <i>Materials & Design</i> , 2014 , 64, 63-73		26

(2013-2014)

155	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	
154	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	
153	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	
152	Hydrogen Sorption Behaviors of a Core–Shell Structured Mg@Fe Composite Powder. <i>Materials Transactions</i> , 2014 , 55, 1156-1160	1.3	6	
151	Hydrogen storage properties of MgIIiO2 composite powder prepared by arc plasma method. Transactions of Nonferrous Metals Society of China, 2014 , 24, 3834-3839	3.3	9	
150	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	
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	Cyclic Deformation of Rare-Earth Containing Magnesium Alloys. <i>Advanced Materials Research</i> , 2014 , 891-892, 391-396	0.5	4	
147	Carbon aerogel supported Pt🛭n catalyst and its oxygen reduction catalytic performance in magnesium-air batteries. <i>Journal of Materials Research</i> , 2014 , 29, 2863-2870	2.5	16	
146	Study on hydrogenation behaviors of a Mg-13Y alloy. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 8303-8310	6.7	10	
145	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	
144	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	
143	Study on reversible hydrogen sorption behaviors of 3NaBH4/HoF3 composite. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 14275-14281	6.7	12	
142	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	
141	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	
140	Effect of rare earth elements on deformation behavior of an extruded Mg@OGdBYD.5Zr alloy during compression. <i>Materials & Design</i> , 2013 , 46, 411-418		65	
139	Mechanisms of reversible hydrogen storage in NaBH4 through NdF3 addition. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3983	13	30	
138	Reversible hydrogen sorption in NaBH4 at lower temperatures. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 13510	13	20	

137	Microstructure characterization and hydrogen desorption behaviors of MgAlH powders prepared by reactive milling in hydrogen. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 3112-3118	3.3	2
136	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
135	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
134	Hydrogen storage properties of a Mgte oxide nano-composite prepared through arc plasma method. <i>Journal of Alloys and Compounds</i> , 2013 , 580, S167-S170	5.7	17
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