Wenjiang Ding

List of Publications by Year in Descending Order

282 papers	9,260 citations	53 h-index	78 g-index
286 ext. papers	10,866 ext. citations	5.2 avg, IF	6.42 L-index

#	Paper	IF	Citations
282	Improvements of elevated temperature tensile strengths of Mg-Gd-Y-Zr alloy through squeeze cast. *Materials Characterization*, **2022**, 184, 111658	3.9	0
281	Effect of heat treatment on microstructure evolution and mechanical properties of selective laser melted Mg-11Gd-2Zn-0.4Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2022**, 829, 142139	5.3	4
280	A novel process for grain refinement of Mg-RE alloys by low frequency electro-magnetic stirring assisted near-liquidus squeeze casting. *Journal of Materials Processing Technology*, **2022**, 303, 117537	5.3	0
279	Microstructure and mechanical properties of Mg-Gd-Y-Zn-Zr alloy prepared by rheo-diecasting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2022**, 143287	5.3	0
278	Traditional Chinese medicine extracts as novel corrosion inhibitors for AZ91 magnesium alloy in saline environment.. *Scientific Reports*, **2022**, 12, 7367	4.9	1
277	Effectiveness and safety of biodegradable Mg-Nd-Zn-Zr alloy screws for the treatment of medial malleolar fractures. *Journal of Orthopaedic Translation*, **2021**, 27, 96-100	4.2	6
276	High cycle fatigue behavior and mechanical performance of a novel sand-cast Mg-Nd-Gd alloy: Effect of heat treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 813, 141172	5.3	4
275	Effects of Gd Addition on the Microstructure and Tensile Properties of Mg□Al□RE Alloy Produced by Three Different Casting Methods. *Acta Metallurgica Sinica (English Letters)*, **2021**, 34, 1361-1374	2.5	1
274	Effects of additive NaI on electrodeposition of Al coatings in AlCl3-NaCl-KCl molten salts. *Frontiers of Chemical Science and Engineering*, **2021**, 15, 138-147	4.5	3
273	Improving hydrogen sorption performances of MgH2 through nanoconfinement in a mesoporous CoS nano-boxes scaffold. *Chemical Engineering Journal*, **2021**, 406, 126790	14.7	21
272	Recent developments and applications on high-performance cast magnesium rare-earth alloys. *Journal of Magnesium and Alloys*, **2021**, 9, 1-20	8.8	60
271	A novel die-casting Mg alloy with superior performance: Study of microstructure and mechanical behavior. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 802, 140655	5.3	2
270	Microstructural evolution of Mg-10Gd-3Y-1Zn-0.4Zr (wt%) alloy prepared by strain-induced melt activation process. *Materials Characterization*, **2021**, 171, 110831	3.9	3
269	Achieving low-temperature Zr alloying for microstructural refinement of sand-cast Mg-Gd-Y alloy by employing zirconium tetrachloride. *Materials Characterization*, **2021**, 171, 110727	3.9	6
268	Turning Trash into Treasure: MXene with Intrinsic LiF Solid Electrolyte Interfaces Performs Better and Better during Battery Cycling. *Advanced Materials Technologies*, **2021**, 6, 2000882	6.8	3
267	Magnesium hydride acts as a convenient hydrogen supply to prolong the vase life of cut roses by modulating nitric oxide synthesis. *Postharvest Biology and Technology*, **2021**, 177, 111526	6.2	7
266	Effect of Zr and Sc micro-additions on the microstructure and mechanical properties of as-cast Al-5Ce alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2021**, 822, 141654	5.3	4

265	Direct observations of diffusion controlled microstructure transition in Mg-In/Mg-Ag ultrafine particles with enhanced hydrogen storage and hydrolysis properties. *Chemical Engineering Journal*, **2021**, 418, 129301	14.7	6
264	Microstructure and mechanical properties of high performance die cast Al-8Ce-3Y aluminum alloy containing Al4(Ce,Y) phase. *Materials Letters*, **2021**, 305, 130742	3.3	0
263	Microstructure and Mechanical Properties of Squeeze Cast Al-5 Mg-3Zn-1Cu-1Si Alloy Along Cross Section. *Metals and Materials International*, **2020**, 27, 3776	2.4	1
262	Improved Tensile Strength of Al-5Ce Alloy by Permanent Magnet Stirring. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 1972-1977	2.3	9
261	Microstructural Evolution and Mechanical Properties of As-Cast and As-Extruded Mg–14Li Alloy with Different Zn/Y and Zn/Gd Addition. *Advanced Engineering Materials*, **2020**, 22, 2000480	3.5	3
260	In situ catalyzed and nanoconfined magnesium hydride nanocrystals in a Ni-MOF scaffold for hydrogen storage. *Sustainable Energy and Fuels*, **2020**, 4, 4694-4703	5.8	7
259	Effects of Titanium Addition on the Microstructural and Mechanical Property Evolution of FeCrB Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 4610-4622	2.3	5
258	Enhanced hydrogen sorption properties of MgH2 when doped with mechanically alloyed amorphous Zr0.67Ni0.33 particles. *International Journal of Hydrogen Energy*, **2020**, 45, 28144-28153	6.7	8
257	In vitro cytocompatibility, hemocompatibility and antibacterial properties of biodegradable Zn-Cu-Fe alloys for cardiovascular stents applications. *Materials Science and Engineering C*, **2020**, 113, 111007	8.3	28
256	Nano Fe and Mg2Ni derived from TMA-TM (TM = Fe, Ni) MOFs as synergetic catalysts for hydrogen storage in MgH2. *Sustainable Energy and Fuels*, **2020**, 4, 2192-2200	5.8	15
255	Extra Strain Hardening in High Pressure Die Casting Mg-Al-RE Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 1487-1492	2.3	5
254	The in vitro and in vivo biological effects and osteogenic activity of novel biodegradable porous Mg alloy scaffolds. *Materials and Design*, **2020**, 189, 108514	8.1	21
253	Effect of different transition metal fluorides TMFx (TM=Nb, Co, Ti) on hydrogen storage properties of the 3NaBH4-GdF3 system. *Journal of Alloys and Compounds*, **2020**, 823, 153716	5.7	2
252	Mechanism of Thermodynamic Destabilization and Fast Desorption Kinetics in a Mechanically Alloyed MgH2–Ih Composite. *Journal of Physical Chemistry C*, **2020**, 124, 9685-9695	3.8	3
251	Effect of Different Ageing Processes on Microstructure and Mechanical Properties of Cast Al–Li–Cu–0.2Zr Alloy. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1243-1251	2.5	0
250	Microstructure and mechanical properties of sand-cast Mg-6Gd-3Y-0.5Zr alloy subject to thermal cycling treatment. *Journal of Materials Science and Technology*, **2020**, 43, 208-219	9.1	14
249	Formation of non-dendritic microstructures in preparation of semi-solid Mg-RE alloys slurries: Roles of RE content and cooling rate. *Journal of Materials Processing Technology*, **2020**, 279, 116545	5.3	5
248	Nanoscale precipitations in deformed dilute alloying Mg-Zn-Gd alloy. *Materials and Design*, **2020**, 196, 109122	8.1	15

247	Electrodeposition of Aluminum Coatings from AlCl-NaCl-KCl Molten Salts with TMACl and NaI Additives. *Materials*, **2020**, 13,	3.5	2
246	Semisolid rheoforming of magnesium alloys: A review. *Materials and Design*, **2020**, 195, 108990	8.1	12
245	Challenges and Solutions for the Additive Manufacturing of Biodegradable Magnesium Implants. *Engineering*, **2020**, 6, 1267-1275	9.7	23
244	Effect of Zn Addition on the Microstructure and Mechanical Properties of Cast Mg□10Gd□3.5Er□Zn□0.5Zr Alloys. *Acta Metallurgica Sinica (English Letters)*, **2020**, 33, 1505-1517	2.5	4
243	A Simplified Hot-Tearing Criterion for Shape Castings Based on Temperature-Field Simulation. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 5271-5280	2.3	2
242	Preparation and hydrogen storage properties of MgH2-trimesic acid-TM MOF (TM=Co, Fe) composites. *Journal of Materials Science and Technology*, **2019**, 35, 2132-2143	9.1	28
241	Research on Biodegradable Mg-Zn-Gd Alloys for Potential Orthopedic Implants: In Vitro and in Vivo Evaluations. *ACS Biomaterials Science and Engineering*, **2019**, 5, 1623-1634	5.5	17
240	Effect of Y and Gd content on the microstructure and mechanical properties of Mg□□RE alloys. *Journal of Magnesium and Alloys*, **2019**, 7, 345-354	8.8	71
239	Visualization of fast □ydrogen pump□n core□hell nanostructured Mg@Pt through hydrogen-stabilized Mg3Pt. *Journal of Materials Chemistry A*, **2019**, 7, 14629-14637	13	30
238	Reversible hydrogen storage system of 3NaBH4-0.5ScF3-0.5YF3: The synergistic effect of ScF3 and YF3. *Journal of Alloys and Compounds*, **2019**, 791, 1270-1276	5.7	7
237	Effects of trimesic acid-Ni based metal organic framework on the hydrogen sorption performances□of MgH2. *International Journal of Hydrogen Energy*, **2019**, 44, 29235-29248	6.7	15
236	Microstructure and Tensile Properties of the Mg-6Zn-4Al-xSn Die Cast Magnesium Alloy. *Metals*, **2019**, 9, 113	2.3	0
235	Effects of Al and Y Addition on Microstructures and Mechanical Properties of As-Cast Mg□4Li Based Alloy. *Advanced Engineering Materials*, **2019**, 21, 1800755	3.5	6
234	Enhanced hydrogenation and hydrolysis properties of core-shell structured Mg-MOx (M = Al, Ti and Fe) nanocomposites prepared by arc plasma method. *Chemical Engineering Journal*, **2019**, 371, 233-243	14.7	22
233	Microstructure refinement of Mg-Al-RE alloy by Gd addition. *Materials Letters*, **2019**, 246, 125-128	3.3	21
232	Reversible hydrogen sorption behaviors of the 3NaBH4-(x)YF3-(1-x)GdF3 system: The effect of double rare earth metal cations. *International Journal of Hydrogen Energy*, **2019**, 44, 4868-4877	6.7	9
231	Enhanced hydrogen sorption properties of core-shell like structured Mg@NaBH4/MgB2 composite. *Journal of Alloys and Compounds*, **2019**, 810, 151763	5.7	7
230	Experimental and Theoretical Research on the Corrosion Resistance of Ferrous Alloys in Aluminum Melts. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 4665-4676	2.3	4

229	In vivo and in vitro evaluation of a biodegradable magnesium vascular stent designed by shape optimization strategy. *Biomaterials*, **2019**, 221, 119414	15.6	39
228	Towards high ductility in magnesium alloys - The role of intergranular deformation. *International Journal of Plasticity*, **2019**, 123, 121-132	7.6	32
227	Surfactant induced formation of flower-like V2O5 microspheres as cathode materials for rechargeable magnesium batteries. *Ionics*, **2019**, 25, 5889-5897	2.7	5
226	Using CoS cathode materials with 3D hierarchical porosity and an ionic liquid (IL) as an electrolyte additive for high capacity rechargeable magnesium batteries. *Journal of Materials Chemistry A*, **2019**, 7, 18880-18888	13	20
225	An Investigation on Microstructures and Mechanical Properties of Ultra-Low Cu Layer Thickness Ratio Cu/8011/1060 Clads. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 5866-5876	2.3	4
224	Influence of Er addition on microstructure and mechanical properties of as-cast Mg-10Li-5Zn alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2019**, 739, 395-403	5.3	19
223	Effects of Melt-to-Solid Volume Ratio and Pouring Temperature on Microstructures and Mechanical Properties of Cu/Al Bimetals in Compound Casting Process. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2019**, 50, 401-414	2.3	5
222	Mechanisms of partial hydrogen sorption reversibility in a 3NaBH/ScF composite.. *RSC Advances*, **2018**, 8, 9211-9217	3.7	9
221	Effect of Cooling Rate on the Microstructure and Mechanical Properties of Cu/Al Bimetal Fabricated by Compound Casting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 661-672	2.3	24
220	Tribological Behavior of Carbon Nanotube-Reinforced AZ91D Composites Processed by Cyclic Extrusion and Compression. *Tribology Letters*, **2018**, 66, 1	2.8	5
219	Microstructure and High Temperature Tensile Properties of Mg□10Gd□3Y□0.5Zr Alloy after Thermo-Mechanical Processing. *Metals*, **2018**, 8, 980	2.3	8
218	Ultralow-loading platinum-cobalt fuel cell catalysts derived from imidazolate frameworks. *Science*, **2018**, 362, 1276-1281	33.3	441
217	Modeling and Experimental Studies of Coating Delamination of Biodegradable Magnesium Alloy Cardiovascular Stents. *ACS Biomaterials Science and Engineering*, **2018**, 4, 3864-3873	5.5	16
216	Hydrogen storage properties of nanocrystalline Mg2Ni prepared from compressed 2MgH2Ni powder. *International Journal of Hydrogen Energy*, **2018**, 43, 22391-22400	6.7	36
215	Hydrogen storage in MgNi(Fe)H nano particles synthesized from coarse-grained Mg and nano sized Ni(Fe) precursor.. *RSC Advances*, **2018**, 8, 18959-18965	3.7	6
214	Fabrication of ultra-high strength magnesium alloys over 540 MPa with low alloying concentration by double continuously extrusion. *Journal of Magnesium and Alloys*, **2018**, 6, 107-113	8.8	20
213	Phases Formation and Evolution at Elevated Temperatures of Al□12Si□3.8Cu□2Ni□1Mg Alloy . *Advanced Engineering Materials*, **2017**, 19, 1600623	3.5	8
212	A combined electron backscattered diffraction and visco-plastic self-consistent analysis on the anisotropic deformation behavior in a Mg-Gd-Y alloy. *Materials and Design*, **2017**, 122, 164-171	8.1	22

211	Effects of cyclic extrusion and compression on the microstructure and mechanical properties of AZ91D magnesium composites reinforced by SiC nanoparticles. *Materials Characterization*, **2017**, 126, 17-27	3.9	33
210	Characterization and strengthening effects of β′ precipitates in a high-strength casting Mg-15Gd-1Zn-0.4Zr (wt.%) alloy. *Materials Characterization*, **2017**, 126, 1-9	3.9	62
209	A promising biodegradable magnesium alloy suitable for clinical vascular stent application. *Scientific Reports*, **2017**, 7, 46343	4.9	70
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	Effect of extrusion ratio on microstructure and mechanical properties of Mg-8Li-3Al-2Zn-0.5Y alloy with duplex structure. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 692, 9-16	5.3	33
206	Semi-solid slurry preparation, rheo-die casting and rheo-squeeze casting of an AZ91-2Ca-1.5Ce ignition-proof magnesium alloy by gas-bubbling process. *Journal of Materials Research*, **2017**, 32, 677-686	2.5	4
205	Hydrogen storage and hydrolysis properties of core-shell structured Mg-MFx (M=V, Ni, La and Ce) nano-composites prepared by arc plasma method. *Journal of Power Sources*, **2017**, 366, 131-142	8.9	32
204	Study of age hardening in a Mg-2.2 wt%Nd alloy by in situ synchrotron X-ray diffraction and mechanical tests. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 708, 319-328	5.3	13
203	Effect of Direct Chill Casting Process Parameters on the Microstructure and Macrosegregation of Mg-Al-Zn Ingot. *Materials Transactions*, **2017**, 58, 1197-1202	1.3	2
202	Effect of SiC particles and the particulate size on the hot deformation and processing map of AZ91 magnesium matrix composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2017**, 707, 315-324	5.3	27
201	Bonding of Aluminum Alloys in Compound Casting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2017**, 48, 4632-4644	2.3	19
200	Synthesis and hydrogen storage properties of core-shell structured binary Mg@Ti and ternary Mg@Ti@Ni composites. *International Journal of Hydrogen Energy*, **2017**, 42, 2239-2247	6.7	37
199	Influences of heat treatment on microstructural evolution and tensile behavior of squeeze-cast Mg-Gd-Y-Zr alloy. *Journal of Materials Science*, **2017**, 52, 1831-1846	4.3	16
198	A Novel Method to Achieve Grain Refinement in Aluminum. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 4788-4794	2.3	26
197	Carbon supported nano Pt-Mo alloy catalysts for oxygen reduction in magnesium-air batteries. *RSC Advances*, **2016**, 6, 83025-83030	3.7	10
196	Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of Ni-Mn films prepared in ionic liquid. *Applied Surface Science*, **2016**, 365, 31-37	6.7	22
195	Influence of processing parameters on thermal field in Mg-Nd-Zn-Zr alloy during friction stir processing. *Materials and Design*, **2016**, 94, 186-194	8.1	21
194	Damage morphology study of high cycle fatigued as-cast Mg-3.0Nd-0.2Zn-Zr (wt.%) alloy. *Materials Characterization*, **2016**, 111, 93-105	3.9	12

193	Preparation of MgNd2Zn(Zr) alloys semisolid slurry by electromagnetic stirring. *Materials and Design*, **2016**, 95, 398-409	8.1	33
192	Dislocations in icosahedral quasicrystalline phase embedded in hot-deformed Mg alloys. *Journal of Alloys and Compounds*, **2016**, 658, 483-487	5.7	7
191	An investigation into interface formation and mechanical properties of aluminum–copper bimetal by squeeze casting. *Materials and Design*, **2016**, 89, 1137-1146	8.1	50
190	Influence of Pressure and Temperature on Microstructure and Mechanical Behavior of Squeeze Cast Mg-10Gd-3Y-0.5Zr Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 4104-4115	2.3	11
189	Effect of macrophages on in vitro corrosion behavior of magnesium alloy. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2476-87	5.4	19
188	Research on a Zn-Cu alloy as a biodegradable material for potential vascular stents application. *Materials Science and Engineering C*, **2016**, 69, 407-13	8.3	140
187	High-Temperature Tensile and Compressive Behavior of Peak-Aged Sand-Cast Mg–10Gd–3Y–0.5Zr Alloy . *Advanced Engineering Materials*, **2016**, 18, 671-677	3.5	9
186	Effect of Gd addition on the wear behavior of Mg– Gd–3Y–0.5Zr alloys. *Journal of Materials Research*, **2016**, 31, 1133-1144	2.5	2
185	Influence of cryogenic treatment on room and low temperature tensile behavior of as-cast Mg-10Gd-3Y-0.5Zr magnesium alloy. *Journal of Materials Research*, **2016**, 31, 419-426	2.5	4
184	Analysis of Slip Activity and Deformation Modes in Tension and Tension-Creep Tests of Cast Mg-10Gd-3Y-0.5Zr (Wt Pct) at Elevated Temperatures Using In Situ SEM Experiments. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2016**, 47, 2421-2443	2.3	2
183	Opportunities and challenges for the biodegradable magnesium alloys as next-generation biomaterials. *International Journal of Energy Production and Management*, **2016**, 3, 79-86	5.3	100
182	Hydrogen storage in Mg2Fe(Ni)H6 nanowires synthesized from coarse-grained Mg and nano sized –Fe(Ni) precursors. *International Journal of Hydrogen Energy*, **2016**, 41, 14795-14806	6.7	14
181	Microscopic deformation compatibility during monotonic loading in a Mg-Gd-Y alloy. *Materials Characterization*, **2016**, 119, 195-199	3.9	13
180	Effects of cyclic extrusion and compression parameters on microstructure and mechanical properties of Mg–1.50Zn–0.25Gd alloy. *Materials and Design*, **2015**, 86, 788-796	8.1	22
179	Aging effects on cyclic deformation and fatigue of extruded Mg–Gd–Y–Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 641, 1-9	5.3	11
178	Effect of solidification sequence on the microstructure and mechanical properties of die-cast Al–11Si–2Cu–Fe alloy. *Journal of Alloys and Compounds*, **2015**, 649, 679-686	5.7	12
177	Preparation of an Mg–Gd–Zn alloy semisolid slurry by low frequency electro-magnetic stirring. *Materials and Design*, **2015**, 84, 53-63	8.1	35
176	Microstructure evolution and mechanical properties of AZ91D magnesium alloy processed by repetitive upsetting. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 641, 62-70	5.3	12

175	Microstructure evolution and mechanical properties of Mg-Gd-Sm-Zr alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 627, 223-229	5.3	37
174	Effect of rotating gas bubble stirring process parameters on purifying effectiveness and mechanical properties of sand-cast Mg□10Gd□3Y□0.5Zr alloy. *Journal of Materials Research*, **2015**, 30, 224-232	2.5	1
173	Preparation and rheo-squeeze casting of semi-solid AZ91□ wt% Ca magnesium alloy by gas bubbling process. *Journal of Materials Research*, **2015**, 30, 825-832	2.5	9
172	Secondary phases in quasicrystal-reinforced Mg□.5Zn□.6Gd Mg alloy. *Materials Characterization*, **2015**, 108, 132-136	3.9	13
171	Study on hydrogen storage properties of MgX (X = Fe, Co, V) nano-composites co-precipitated from solution. *RSC Advances*, **2015**, 5, 7687-7696	3.7	25
170	An investigation into aluminum□luminum bimetal fabrication by squeeze casting. *Materials & Design*, **2015**, 68, 8-17		39
169	Microstructure evolution and mechanical properties of quasicrystal-reinforced Mg□nCd alloy processed by cyclic extrusion and compression. *Journal of Alloys and Compounds*, **2015**, 626, 42-48	5.7	58
168	On the production of Mg-Nd master alloy from NdFeB magnet scraps. *Journal of Materials Processing Technology*, **2015**, 218, 57-61	5.3	19
167	Microstructure and tensile properties of as-extruded Mg□i□nCd alloys reinforced with icosahedral quasicrystal phase. *Materials & Design*, **2015**, 66, 162-168		45
166	Microstructure and mechanical properties of rheo-squeeze casting AZ91-Ca magnesium alloy prepared by gas bubbling process. *Materials & Design*, **2015**, 67, 1-8		25
165	Microstructure characterization and high-temperature shear strength of the Mg□10Gd□3Y□1.2Zn□.5Zr alloy in the as-cast and aged conditions. *Journal of Alloys and Compounds* , **2015**, 619, 826-833	5.7	20
164	Effects of Gd and Zr additions on the microstructures and high-temperature mechanical behavior of Mg□Gd□□r magnesium alloys in the product form of a large structural casting. *Journal of Materials Research*, **2015**, 30, 3461-3473	2.5	19
163	NaBH4 in "Graphene Wrapper:" Significantly Enhanced Hydrogen Storage Capacity and Regenerability through Nanoencapsulation. *Advanced Materials*, **2015**, 27, 5070-4	24	48
162	Enhanced bioactivity of Mg-Nd-Zn-Zr alloy achieved with nanoscale MgF2 surface for vascular stent application. *ACS Applied Materials & Interfaces*, **2015**, 7, 5320-30	9.5	77
161	Effects of LnF3 on reversible and cyclic hydrogen sorption behaviors in NaBH4: electronic nature of Ln versus crystallographic factors. *Journal of Materials Chemistry A*, **2015**, 3, 4493-4500	13	12
160	Preparation and hydrogen sorption properties of a Ni decorated Mg based Mg@Ni nano-composite. *International Journal of Hydrogen Energy*, **2015**, 40, 1820-1828	6.7	52
159	Microstructure evolution and mechanical properties of an ultra-high strength casting Mg□5.6Gd□.8Ag□.4Zr alloy. *Journal of Alloys and Compounds*, **2014**, 615, 703-711	5.7	73
158	Improvement in grain refinement efficiency of Mg□r master alloy for magnesium alloy by friction stir processing. *Journal of Magnesium and Alloys*, **2014**, 2, 239-244	8.8	24

157	Effects of La fluoride and La hydride on the reversible hydrogen sorption behaviors of NaBH4: a comparative study. *Journal of Materials Chemistry A*, **2014**, 2, 8557-8570	13	18
156	A co-precipitated Mg□Ti nano-composite with high capacity and rapid hydrogen absorption kinetics at room temperature. *RSC Advances*, **2014**, 4, 42764-42771	3.7	26
155	Hydrogen Storage Properties of a Mg□Ni Nanocomposite Coprecipitated from Solution. *Journal of Physical Chemistry C*, **2014**, 118, 18401-18411	3.8	56
154	Effect of chemical composition on the microstructure, tensile properties and fatigue behavior of sand-cast Mg□Gd□□r alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 612, 293-301	5.3	42
153	Effects of REF3 (RE□=□Y, La, Ce) additives on dehydrogenation properties of LiAlH4. *International Journal of Hydrogen Energy*, **2014**, 39, 11642-11650	6.7	12
152	Cyclic deformation and fatigue of extruded ZK60 magnesium alloy with aging effects. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 262-272	5.3	35
151	Effect of Gd content on microstructure and mechanical properties of Mg□Gd□□r alloys under peak-aged condition. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 615, 79-86	5.3	53
150	Effect of temperature-induced solute distribution on stacking fault energy in Mg□(X = Li, Cu, Zn, Al, Y and Zr) solid solution: a first-principles study. *Philosophical Magazine*, **2014**, 94, 1578-1587	1.6	25
149	Effects of processing parameters and Ca content on microstructure and mechanical properties of squeeze casting AZ91□Ca alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 595, 109-117	5.3	37
148	Ductility improvement by twinning and twin□lip interaction in a Mg-Y alloy. *Materials & Design*, **2014**, 56, 966-974		66
147	A study of fatigue damage development in extruded Mg□Gd□Y magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 589, 209-216	5.3	31
146	Precipitation process in a Mg□Gd□Y alloy grain-refined by Al addition. *Materials Characterization*, **2014**, 88, 7-14	3.9	18
145	Formation mechanism of quasicrystals at the nanoscale during hot compression of Mg alloys. *Scripta Materialia*, **2014**, 78-79, 61-64	5.6	18
144	Electrodeposition mechanism and characterization of Ni□Cu alloy coatings from a eutectic-based ionic liquid. *Applied Surface Science*, **2014**, 288, 530-536	6.7	67
143	Effects of Mn addition on the microstructure and mechanical properties of cast Mg□Al□Sn (wt.%) alloy. *Journal of Magnesium and Alloys*, **2014**, 2, 27-35	8.8	24
142	Nanoscale icosahedral quasicrystal phase precipitation mechanism during annealing for Mg□n□d-based alloys. *Materials Letters*, **2014**, 130, 236-239	3.3	18
141	Characterization of highly corrosion-resistant nanocrystalline Ni coating electrodeposited on Mg□Nd□n□r alloy from a eutectic-based ionic liquid. *Applied Surface Science*, **2014**, 313, 711-719	6.7	24
140	Effects of chemical composition on the microstructure and mechanical properties of gravity cast Mg□Zn□RE□r alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 594, 52-61	5.3	17

139	Hydrogen Sorption Behaviors of a Core–Shell Structured Mg@Fe Composite Powder. *Materials Transactions*, **2014**, 55, 1156-1160	1.3	6
138	High cycle fatigue behavior of different regions in a low-pressure sand-cast GW103K magnesium alloy component. *Journal of Materials Research*, **2014**, 29, 2587-2595	2.5	3
137	Carbon aerogel supported Pt–Sn catalyst and its oxygen reduction catalytic performance in magnesium-air batteries. *Journal of Materials Research*, **2014**, 29, 2863-2870	2.5	16
136	Study on hydrogenation behaviors of a Mg-13Y alloy. *International Journal of Hydrogen Energy*, **2014**, 39, 8303-8310	6.7	10
135	Fatigue behavior and plane-strain fracture toughness of sand-cast Mg–10Gd–3Y–0.5Zr magnesium alloy. *Materials & Design*, **2014**, 59, 466-474		37
134	A comparison study of Mg–Y2O3 and Mg–Y hydrogen storage composite powders prepared through arc plasma method. *Journal of Alloys and Compounds*, **2014**, 615, S684-S688	5.7	32
133	Study on reversible hydrogen sorption behaviors of a 3NaBH4/HoF3 composite. *International Journal of Hydrogen Energy*, **2014**, 39, 14275-14281	6.7	12
132	Hydrogen storage properties of Mg–TM–La (TM = Ti, Fe, Ni) ternary composite powders prepared through arc plasma method. *International Journal of Hydrogen Energy*, **2013**, 38, 8852-8862	6.7	42
131	Microstructure and Mechanical Properties of Mg-7Al-2Sn Alloy Processed by Super Vacuum Die-Casting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 4788-4799	2.3	22
130	Effect of Icosahedral Quasicrystalline Fraction and Extrusion Ratio on Microstructure, Mechanical Properties, and Anisotropy of Mg-Zn-Gd-Based Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 2725-2734	2.3	15
129	Excellent mechanical properties of an ultrafine-grained quasicrystalline strengthened magnesium alloy with multi-modal microstructure. *Materials Letters*, **2013**, 107, 181-184	3.3	18
128	Enhanced biocorrosion resistance and biocompatibility of degradable Mg-Nd-Zn-Zr alloy by brushite coating. *Materials Science and Engineering C*, **2013**, 33, 4833-41	8.3	72
127	Nanophasic biodegradation enhances the durability and biocompatibility of magnesium alloys for the next-generation vascular stents. *Nanoscale*, **2013**, 5, 9517-22	7.7	80
126	Mechanisms of reversible hydrogen storage in NaBH4 through NdF3 addition. *Journal of Materials Chemistry A*, **2013**, 1, 3983	13	30
125	Reversible hydrogen sorption in NaBH4 at lower temperatures. *Journal of Materials Chemistry A*, **2013**, 1, 13510	13	20
124	Grain refinement and fatigue strengthening mechanisms in as-extruded Mg–6Zn–0.5Zr and Mg–10Gd–3Y–0.5Zr magnesium alloys by shot peening. *International Journal of Plasticity*, **2013**, 49, 16-35	7.6	56
123	Heat treatment, microstructure and mechanical properties of a Mg–Gd–Y alloy grain-refined by Al additions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 576, 298-305	5.3	34
122	Effect of cooling rate on the microstructure and mechanical properties of sand-casting Mg–10Gd–3Y–0.5Zr magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 562, 152-160	5.3	41

121	Hydrogen storage properties of a MgCe oxide nano-composite prepared through arc plasma method. *Journal of Alloys and Compounds*, **2013**, 580, S167-S170	5.7	17
120	Microstructure evolution of semi-solid Mg10GdYZr alloy during isothermal heat treatment. *Journal of Magnesium and Alloys*, **2013**, 1, 39-46	8.8	22
119	Selective oxidation behavior of an ignition-proof Mg-Y-Ca-Ce alloy. *Journal of Rare Earths*, **2013**, 31, 1003-1008	3.1	14
118	Effect of solid solution and aging treatments on the microstructures evolution and mechanical properties of Mg14GdY1.8ZnZr alloy. *Journal of Alloys and Compounds*, **2013**, 557, 91-97	5.7	35
117	Grain Refinement of Magnesium Alloys by MgZr Master Alloys: The Role of Alloy Chemistry and Zr Particle Number Density. *Advanced Engineering Materials*, **2013**, 15, 373-378	3.5	35
116	Study on hydrogen storage properties of Mg nanoparticles confined in carbon aerogels. *International Journal of Hydrogen Energy*, **2013**, 38, 5302-5308	6.7	57
115	Study on the hydrogen storage properties of coreshell structured MgRE (RE=Nd, Gd, Er) nano-composites synthesized through arc plasma method. *International Journal of Hydrogen Energy* , **2013**, 38, 2337-2346	6.7	93
114	High ductility of a MgCa alloy via extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 560, 103-110	5.3	20
113	Microstructure, mechanical properties and fracture behavior of peak-aged Mg34Y32Nd31Gd alloys under different aging conditions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 303-311	5.3	14
112	Microstructure and mechanical properties of double continuously extruded MgZnGd-based magnesium alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 560, 241-248	5.3	24
111	Cyclic deformation and fatigue of extruded MgGdY magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2013**, 561, 403-410	5.3	40
110	In vitro degradation behavior and biocompatibility of Mg-Nd-Zn-Zr alloy by hydrofluoric acid treatment. *Materials Science and Engineering C*, **2013**, 33, 242-50	8.3	94
109	Microstructure and mechanical properties of as-cast and solution-treated Mg-Zn-Gd-based alloys reinforced with quasicrystals. *International Journal of Materials Research*, **2013**, 104, 380-385	0.5	13
108	Preparation and adhesion performance of multilayered Ni coatings deposited by ultrasonic-assisted electroplating. *Journal of Adhesion Science and Technology*, **2013**, 27, 136-142	2	7
107	Biocorrosion properties of as-extruded MgNdZnZr alloy compared with commercial AZ31 and WE43 alloys. *Materials Letters*, **2012**, 66, 209-211	3.3	119
106	Application of DruckerPrager plasticity to predict fracture in rectangular cup drawing of AZ31 alloy sheet. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 532, 316-324	5.3	7
105	Plastic flow behavior of a high-strength magnesium alloy NZ30K. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 532, 616-622	5.3	17
104	Effect of Zn on the microstructure evolution of extruded MgNd (Zn)Zr (wt.%) alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2012**, 543, 12-21	5.3	39

103	Comparison of biodegradable behaviors of AZ31 and MgNdZnZr alloys in Hank's physiological solution. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2012**, 177, 395-401	3.1	129
102	Effects of extrusion and heat treatment on the mechanical properties and biocorrosion behaviors of a Mg-Nd-Zn-Zr alloy. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 7, 77-86	4.1	155
101	Microstructure, mechanical properties, biocorrosion behavior, and cytotoxicity of as-extruded Mg-Nd-Zn-Zr alloy with different extrusion ratios. *Journal of the Mechanical Behavior of Biomedical Materials*, **2012**, 9, 153-62	4.1	131
100	Assessment of Adhesion of Electroplated Cu and Multilayered Cu Coatings by a Bidirectional Bend Test. *Journal of Adhesion Science and Technology*, **2012**, 26, 1645-1652	2	3
99	Preparation and Hydrogen Storage Properties of Mg-Rich Mg-Ni Ultrafine Particles. *Journal of Nanomaterials*, **2012**, 2012, 1-8	3.2	15
98	Dry sliding wear behaviour of Mg10GdYZr alloy. *Materials & Design*, **2012**, 42, 223-229		17
97	A novel biodegradable MgNdZnZr alloy with uniform corrosion behavior in artificial plasma. *Materials Letters*, **2012**, 88, 1-4	3.3	60
96	Effects of Ca content on the microstructure of semisolid Mg3Al alloy produced via isothermal heat treatment. *Journal of Alloys and Compounds*, **2012**, 534, 52-58	5.7	6
95	Consolidation and mechanical properties of Cu46Zr42Al7Y5 metallic glass by spark plasma sintering. *Journal of Non-Crystalline Solids*, **2012**, 358, 1263-1267	3.9	22
94	Preparation and hydrogen sorption properties of a nano-structured Mg based MgaO composite. *International Journal of Hydrogen Energy*, **2012**, 37, 13067-13073	6.7	28
93	Reversible hydrogen storage in a 3NaBH4/YF3 composite. *International Journal of Hydrogen Energy*, **2012**, 37, 17118-17125	6.7	27
92	Preparation of superhydrophobic silica film on MgNdZnZr magnesium alloy with enhanced corrosion resistance by combining micro-arc oxidation and solgel method. *Surface and Coatings Technology*, **2012**, 213, 192-201	4.4	67
91	Grain refinement of Mg-10Gd alloy by Al additions. *Journal of Materials Research*, **2012**, 27, 2790-2797	2.5	31
90	Orientation relationship between 14H-LPSO structured X phase and DO3-type (Mg,Zn)3RE phase in an MgGdZnZr alloy. *International Journal of Materials Research*, **2012**, 103, 559-563	0.5	2
89	Relationship between the Reinforcement Size and Mechanical Properties of Zr-Based Glassy Matrix Composites. *Materials Transactions*, **2012**, 53, 879-884	1.3	3
88	Electrodeposition of chemically and mechanically protective Al-coatings on AZ91D Mg alloy. *Corrosion Science*, **2011**, 53, 381-387	6.8	72
87	The relationship between (Mg,Zn)3RE phase and 14H-LPSO phase in MgGdZnZr alloys solidified at different cooling rates. *Journal of Alloys and Compounds*, **2011**, 509, 3515-3521	5.7	107
86	Surface Characteristics and High Cycle Fatigue Performance of Shot Peened Magnesium Alloy ZK60. *Journal of Metallurgy*, **2011**, 2011, 1-9	0	6

85	Optimization of Magnesium-Aluminum-Tin Alloys for As-Cast Microstructure And Mechanical Properties **2011**, 161-165		
84	Study on the Grain Refinement Behavior of Mg-Zr Master Alloy and Zr Containing Compounds in Mg-10Gd-3Y Magnesium Alloy **2011**, 181-185		
83	Texture and mechanical behavior evolution of age-hardenable MgNdZn extrusions during aging treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2011**, 529, 151-155	5.3	16
82	Effects of Ho on the microstructure and mechanical properties of Mg-Zn-Ho-Zr magnesium alloys. *Rare Metals*, **2011**, 30, 131-136	5.5	13
81	Tailoring nickel coatings via electrodeposition from a eutectic-based ionic liquid doped with nicotinic acid. *Applied Surface Science*, **2011**, 257, 9094-9102	6.7	66
80	Continuous intermetallic compounds coatings on AZ91D Mg alloy fabricated by diffusion reaction of MgAl couples. *Surface and Coatings Technology*, **2011**, 205, 2907-2913	4.4	42
79	Study on the Grain Refinement Behavior of Mg-Zr Master Alloy and Zr Containing Compounds in Mg-10Gd-3Y Magnesium Alloy **2011**, 181-185		0
78	Grain refinement behavior of potassium fluozirconate (K2ZrF6) salts mixture introduced into Mg10Gd3Y magnesium alloy. *Journal of Alloys and Compounds*, **2010**, 494, 426-433	5.7	15
77	Forgeability and die-forging forming of direct chill casting MgNdZnZr magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2010**, 527, 3690-3694	5.3	16
76	Microstructure and Mechanical Properties of Extruded Magnesium-Aluminum-Cerium Alloy Tubes. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 2662-2674	2.3	33
75	Formability, mechanical and corrosive properties of MgNdZnZr magnesium alloy seamless tubes. *Materials & Design*, **2010**, 31, 1417-1422		43
74	Effect of solidification conditions on microstructure, mechanical and wear properties of Mg5Al3Ca0.12Sr magnesium alloy. *Materials & Design*, **2010**, 31, 3901-3907		11
73	Effects of flux containing YCl3 on the yttrium loss, mechanical and corrosion properties of Mg10Gd3Y0.5Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2010**, 527, 1510-1515	5.3	10
72	Dry sliding wear of Cu15Ni8Sn alloy. *Tribology International*, **2010**, 43, 64-68	4.9	32
71	Investigation of the hot compression behavior of the Mg9Al1Zn alloy using EBSP analysis and a cellular automata simulation. *Modelling and Simulation in Materials Science and Engineering*, **2009**, 17, 025009	2	12
70	Formation, microstructure, and mechanical properties of in situ Mg-Ni-(Gd,Nd) bulk metallic glass composite. *Journal of Materials Research*, **2009**, 24, 3603-3610	2.5	14
69	Formation of 14H-type long period stacking ordered structure in the as-cast and solid solution treated Mg-Gd-Zn-Zr alloys. *Journal of Materials Research*, **2009**, 24, 1842-1854	2.5	71
68	Characterization of phases in a Mg8Gd4Sm0.4Zr (wt.%) alloy during solution treatment. *Materials Characterization*, **2009**, 60, 555-559	3.9	34

67	Effects of samarium on microstructure and mechanical properties of Mg□□Sm□r alloys during thermo-mechanical treatments. *Journal of Materials Science*, **2009**, 44, 3049-3056	4.3	13
66	Anisotropic plastic deformation behavior of as-extruded ZK60 magnesium alloy at room temperature. *Science in China Series D: Earth Sciences*, **2009**, 52, 161-165		7
65	Gd contents, mechanical and corrosion properties of Mg□10Gd□Y□.5Zr alloy purified by fluxes containing GdCl3 additions. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 507, 207-214	5.3	27
64	Microstructure and creep behavior of the extruded Mg□Y□Sm□.5Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 516, 189-192	5.3	12
63	Effect of Zr on the microstructure, mechanical properties and corrosion resistance of Mg□10Gd□Y magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 523, 145-151	5.3	104
62	Influence of flux containing YCl3 additions on purifying effectiveness and properties of Mg□10Gd□Y□.5Zr alloy. *Journal of Alloys and Compounds*, **2009**, 480, 386-391	5.7	23
61	Identification of NdH2 particles in solution-treated Mg□.5%Nd (wt.%) alloy. *Journal of Alloys and Compounds*, **2009**, 485, 245-248	5.7	29
60	Effect of Shot Peening on Surface Characteristics and Fatigue Properties of T5-Treated ZK60 Alloy. *Materials Transactions*, **2009**, 50, 791-798	1.3	26
59	Effects of Process Parameters on the Macrostructure of a Squeeze-Cast Mg-2.5 mass%Nd Alloy. *Materials Transactions*, **2009**, 50, 2820-2825	1.3	6
58	Influence of a strong static magnetic field on the discontinuous precipitation reaction in Mg□Al□Zn alloy. *Journal of Alloys and Compounds*, **2008**, 455, 231-235	5.7	5
57	Study of the microstructure, texture and tensile properties of as-extruded AZ91 magnesium alloy. *Journal of Alloys and Compounds*, **2008**, 456, 400-406	5.7	106
56	Precipitate phases in the Mg-4Y-4Sm-0.5Zr alloy. *Journal of Alloys and Compounds*, **2008**, 465, 119-126	5.7	12
55	Investigation of the corrosion for Mg□Gd□Y□.4Zr (x=6,8,10,12wt%) alloys in a peak-aged condition. *Corrosion Science*, **2008**, 50, 166-177	6.8	100
54	The effect of cooling rate on the microstructure and mechanical properties of Mg□n□d-based alloys. *International Journal of Materials Research*, **2008**, 99, 973-978	0.5	7
53	Effects of Zn/Gd Ratio and Content of Zn, Gd on Phase Constitutions of Mg Alloys. *Materials Transactions*, **2008**, 49, 941-944	1.3	30
52	Electrochemical behavior of magnesium alloys AZ91D, AZCe2, and AZLa1 in chloride and sulfate solutions. *Journal of Applied Electrochemistry*, **2008**, 38, 251-257	2.6	34
51	The role of nanoquasicrystals on the ductility enhancement of as-extruded Mg□n□d alloy at elevated temperature. *Journal of Materials Science*, **2008**, 43, 5527-5533	4.3	24
50	Microstructure and mechanical properties of hot-rolled Mg□n□Nd□r alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 483-484, 228-230	5.3	29

49	Effect of quasicrystal and Laves phases on strength and ductility of as-extruded and heat treated Mg□Zn□Cd-based alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 472, 75-82	5.3	39
48	Effects of extrusion on the microstructure and mechanical properties of Mg□Zn□Cd alloy reinforced with quasicrystalline particles. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2008**, 474, 348-354	5.3	58
47	Effects of heat treatments on Microstructure and mechanical properties of Mg□Y□Sm□.5Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 448, 165-170	5.3	50
46	Evolution of microstructure and texture of AZ91 alloy during hot compression. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 452-453, 503-507	5.3	27
45	Effects of extrusion ratio on the microstructure and mechanical properties of AZ31 Mg alloy. *Journal of Materials Processing Technology*, **2007**, 182, 281-285	5.3	175
44	Cyclic oxidation behaviour of cerium implanted AZ31 magnesium alloys. *Materials Letters*, **2007**, 61, 1429-1432	3.1	8
43	Grain Refinement of AZ31 Magnesium Alloy by Titanium and Low-Frequency Electromagnetic Casting. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2007**, 38, 1358-1366	2.3	48
42	Effect of Nd and Y addition on microstructure and mechanical properties of as-cast Mg□Zn□r alloy. *Journal of Alloys and Compounds*, **2007**, 427, 115-123	5.7	136
41	Deformation behavior of Mg□Zn□Cd-based alloys reinforced with quasicrystal and Laves phases at elevated temperatures. *Journal of Alloys and Compounds*, **2007**, 427, 160-165	5.7	56
40	Characterization of precipitate phases in a Mg□Dy□Cd□Nd alloy. *Journal of Alloys and Compounds*, **2007**, 439, 254-257	5.7	35
39	Effect of strontium on the microstructure, mechanical properties, and fracture behavior of AZ31 magnesium alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2006**, 37, 1333-1341	2.3	107
38	Effect of Al□Ti□B master alloy on the grain refinement of AZ31 magnesium alloy. *Scripta Materialia*, **2006**, 54, 269-273	5.6	82
37	Stable icosahedral phase in Mg□Zn□Cd alloy. *Scripta Materialia*, **2006**, 55, 919-922	5.6	78
36	An electron back-scattered diffraction study on the microstructure evolution of AZ31 Mg alloy during equal channel angular extrusion. *Journal of Alloys and Compounds*, **2006**, 426, 148-154	5.7	30
35	Effects of RE on the microstructure and mechanical properties of Mg□Zn□Al magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2006**, 416, 109-118	5.3	103
34	Research on dynamic precipitation behavior of pre-solution treated Mg□wt.% Zn□wt.% Al(□wt.%Y) alloy during creep. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 424, 40-46	5.3	12
33	Deformation behavior and dynamic recrystallization of a Mg□Zn□□r alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 428, 91-97	5.3	53
32	Microstructure evolution of AZ31 Mg alloy during equal channel angular extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 423, 247-252	5.3	83

31	Characterization of phases in Mg□Y□Sm□.5Zr alloy processed by heat treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2006**, 428, 295-300	5.3	48
30	Precipitation behavior and mechanical properties of a Mg□nY□r alloy processed by thermo-mechanical treatment. *Journal of Alloys and Compounds*, **2005**, 395, 213-219	5.7	115
29	Study of the effect of □phase on hydrogen embrittlement of Inconel 718 by notch tensile tests. *Corrosion Science*, **2005**, 47, 355-367	6.8	52
28	The influence of heat treatment on damping response of AZ91D magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 392, 150-155	5.3	76
27	The effects of yttrium element on microstructure and mechanical properties of Mg□wt.% Zn□wt.% Al alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 402, 142-148	5.3	60
26	Effects of Nd on the microstructure of ZA52 alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 392, 229-234	5.3	43
25	Mechanical properties and microstructure of AZ31 Mg alloy processed by two-step equal channel angular extrusion. *Materials Letters*, **2005**, 59, 2267-2270	3.3	88
24	Effect of low-frequency electromagnetic field on microstructures and macrosegregation of □70 mm DC ingots of an Al□nMgCu□r alloy. *Materials Letters*, **2005**, 59, 1502-1506	3.3	37
23	High strength extruded Mg□Zn□Nd□.5Y□.6Zr□.4Ca alloy produced by electromagnetic casting. *Materials Letters*, **2005**, 59, 2549-2554	3.3	28
22	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy. *Journal of Materials Science*, **2004**, 39, 7061-7066	4.3	26
21	Study on Fe reduction in AZ91 melt by B2O3. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2004**, 368, 311-317	5.3	31
20	Study on composite electroforming of Cu/SiCp composites. *Materials Letters*, **2004**, 58, 1634-1637	3.3	38
19	Effect of JDN-I flux on DAS of A356 alloy at different cooling rate. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 348, 1-5	5.3	4
18	Effects of Zn and RE additions on the solidification behavior of Mg□Al magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 342, 178-182	5.3	56
17	Tensile properties of extruded ZK60□RE alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 349, 207-212	5.3	145
16	Effects of rotating impeller degassing on microstructure and mechanical properties of the A356 scraps. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2003**, 352, 294-299	5.3	18
15	In situ surface composites of (Mg2Si+Si)/ZA27 fabricated by centrifugal casting. *Materials Letters*, **2003**, 57, 3851-3858	3.3	9
14	Evaluation of the effect of vacuum on mold filling in the magnesium EPC process. *Journal of Materials Processing Technology*, **2002**, 120, 94-100	5.3	26

13	Behavior of MgAlCa alloy during solution heat treatment at 415 °C. *Journal of Materials Science Letters*, **2002**, 21, 1281-1283		34
12	An understanding of the hot tearing mechanism in AZ91 magnesium alloy. *Materials Letters*, **2002**, 53, 35-39	3.3	60
11	Microstructure refinement of MgAlZnSi alloys. *Materials Letters*, **2002**, 56, 53-58	3.3	139
10	Hot-tearing susceptibility of MgAlZn alloy. *Materials Letters*, **2002**, 57, 929-934	3.3	26
9	Effect of Sb on the microstructure and mechanical properties of AZ91 magnesium alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 787-794	2.3	5
8	Effect of Sb on the microstructure and mechanical properties of AZ91 magnesium alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2001**, 32, 787-794	2.3	47
7	Behavior of surface oxidation on molten MgAl0.5Zn0.3Be alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2001**, 301, 154-161	5.3	67
6	Effect of Si on the precipitation behavior of Mg-6Al alloy. *Journal of Materials Science Letters*, **2001**, 20, 397-399		19
5	Damping capacity of SiCw/MgLiAl composites. *Journal of Materials Science Letters*, **2001**, 20, 327-329		3
4	Effects of rare earths on the microstructure, properties and fracture behavior of MgAl alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2000**, 278, 66-76	5.3	239
3	Structure Design and Performance Research of WO 3 Hydrogen Gasochromic Film Prepared by Solvothermal Synthesis Assisted with Electrodeposition of Seed Layer. *Advanced Materials Interfaces*,2101355	4.6	0
2	Microstructure Modification and Performance Improvement of Mg-RE Alloys by Friction Stir Processing189-196		
1	Microstructure Evolution and Mechanical Behavior of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP at High Temperature511-516		