Wenjiang Ding

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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.

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#	Paper	IF	Citations
282	Ultralow-loading platinum-cobalt fuel cell catalysts derived from imidazolate frameworks. <i>Science</i> , 2018 , 362, 1276-1281	33.3	441
281	Effects of rare earths on the microstructure, properties and fracture behavior of MgAl alloys. Materials Science & Description of MgAl alloys. A contract of MgAl alloys. Materials Science & Description of MgAl alloys.	5.3	239
280	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
279	Effects of extrusion and heat treatment on the mechanical properties and biocorrosion behaviors of a Mg-Nd-Zn-Zr alloy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 7, 77-86	4.1	155
278	Tensile properties of extruded ZK60 R E alloys. <i>Materials Science & Discourse Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 349, 207-212	5.3	145
277	Research on a Zn-Cu alloy as a biodegradable material for potential vascular stents application. <i>Materials Science and Engineering C</i> , 2016 , 69, 407-13	8.3	140
276	Microstructure refinement of MgAlanBi alloys. <i>Materials Letters</i> , 2002 , 56, 53-58	3.3	139
275	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
274	Microstructure, mechanical properties, biocorrosion behavior, and cytotoxicity of as-extruded Mg-Nd-Zn-Zr alloy with different extrusion ratios. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 9, 153-62	4.1	131
273	Comparison of biodegradable behaviors of AZ31 and MgNdInIr alloys in Hank's physiological solution. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 395-401	3.1	129
272	Biocorrosion properties of as-extruded MgNdInIIr alloy compared with commercial AZ31 and WE43 alloys. <i>Materials Letters</i> , 2012 , 66, 209-211	3.3	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	The relationship between (Mg,Zn)3RE phase and 14H-LPSO phase in MgtddMlnIr alloys solidified at different cooling rates. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3515-3521	5.7	107
269	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
268	Study of the microstructure, texture and tensile properties of as-extruded AZ91 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 456, 400-406	5.7	106
267	Effect of Zr on the microstructure, mechanical properties and corrosion resistance of Mg@OGdBY magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 523, 145-151	5.3	104
266	Effects of RE on the microstructure and mechanical properties of MgBZnBAl magnesium alloy. Materials Science & Description of the microstructure and Processing 2006, 416, 109-118.	5.3	103

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265	Investigation of the corrosion for Mg\dd\dd\dd\dd\dd\dd\dd\dd\dd\dd\dd\dd\dd	6.8	100
264	Opportunities and challenges for the biodegradable magnesium alloys as next-generation biomaterials. <i>International Journal of Energy Production and Management</i> , 2016 , 3, 79-86	5.3	100
263	In vitro degradation behavior and biocompatibility of Mg-Nd-Zn-Zr alloy by hydrofluoric acid treatment. <i>Materials Science and Engineering C</i> , 2013 , 33, 242-50	8.3	94
262	Study on the hydrogen storage properties of corellhell structured MgRE (REIFINd, Gd, Er) nano-composites synthesized through arc plasma method. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 2337-2346	6.7	93
261	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
260	Microstructure evolution of AZ31 Mg alloy during equal channel angular extrusion. <i>Materials Science & Discourse and Processing</i> , 2006 , 423, 247-252	5.3	83
259	Effect of AllTiBB master alloy on the grain refinement of AZ31 magnesium alloy. <i>Scripta Materialia</i> , 2006 , 54, 269-273	5.6	82
258	Nanophasic biodegradation enhances the durability and biocompatibility of magnesium alloys for the next-generation vascular stents. <i>Nanoscale</i> , 2013 , 5, 9517-22	7.7	80
257	Stable icosahedral phase in MgInIId alloy. <i>Scripta Materialia</i> , 2006 , 55, 919-922	5.6	78
256	Enhanced bioactivity of Mg-Nd-Zn-Zr alloy achieved with nanoscale MgF2 surface for vascular stent application. <i>ACS Applied Materials & mp; Interfaces</i> , 2015 , 7, 5320-30	9.5	77
255	The influence of heat treatment on damping response of AZ91D magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 150-155	5.3	76
254	Microstructure evolution and mechanical properties of an ultra-high strength casting Mg 1 15.6Gd 1 1.8Ag 1 0.4Zr alloy. <i>Journal of Alloys and Compounds</i> , 2014 , 615, 703-711	5.7	73
253	Enhanced biocorrosion resistance and biocompatibility of degradable Mg-Nd-Zn-Zr alloy by brushite coating. <i>Materials Science and Engineering C</i> , 2013 , 33, 4833-41	8.3	72
252	Electrodeposition of chemically and mechanically protective Al-coatings on AZ91D Mg alloy. <i>Corrosion Science</i> , 2011 , 53, 381-387	6.8	72
251	Effect of Y and Gd content on the microstructure and mechanical properties of MgMRE alloys. <i>Journal of Magnesium and Alloys</i> , 2019 , 7, 345-354	8.8	71
250	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
249	A promising biodegradable magnesium alloy suitable for clinical vascular stent application. <i>Scientific Reports</i> , 2017 , 7, 46343	4.9	70
248	Electrodeposition mechanism and characterization of Nilūu alloy coatings from a eutectic-based ionic liquid. <i>Applied Surface Science</i> , 2014 , 288, 530-536	6.7	67

247	Preparation of superhydrophobic silica film on MgMdZnZr magnesium alloy with enhanced corrosion resistance by combining micro-arc oxidation and solgel method. <i>Surface and Coatings Technology</i> , 2012 , 213, 192-201	4.4	67
246	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
245	Ductility improvement by twinning and twinklip interaction in a Mg-Y alloy. <i>Materials & Design</i> , 2014 , 56, 966-974		66
244	Tailoring nickel coatings via electrodeposition from a eutectic-based ionic liquid doped with nicotinic acid. <i>Applied Surface Science</i> , 2011 , 257, 9094-9102	6.7	66
243	Characterization and strengthening effects of 2 precipitates in a high-strength casting Mg-15Gd-1Zn-0.4Zr (wt.%) alloy. <i>Materials Characterization</i> , 2017 , 126, 1-9	3.9	62
242	A novel biodegradable MgNdInIr alloy with uniform corrosion behavior in artificial plasma. <i>Materials Letters</i> , 2012 , 88, 1-4	3.3	60
241	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
240	An understanding of the hot tearing mechanism in AZ91 magnesium alloy. <i>Materials Letters</i> , 2002 , 53, 35-39	3.3	60
239	Recent developments and applications on high-performance cast magnesium rare-earth alloys. Journal of Magnesium and Alloys, 2021 , 9, 1-20	8.8	60
238	Microstructure evolution and mechanical properties of quasicrystal-reinforced Mg\(\mathbb{Z}\)n\(\mathbb{L}\)d alloy processed by cyclic extrusion and compression. Journal of Alloys and Compounds, 2015, 626, 42-48	5.7	58
237	Effects of extrusion on the microstructure and mechanical properties of MgIntid alloy reinforced with quasicrystalline particles. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2008 , 474, 348-354	5.3	58
236	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
235	Hydrogen Storage Properties of a MgNi Nanocomposite Coprecipitated from Solution. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 18401-18411	3.8	56
234	Grain refinement and fatigue strengthening mechanisms in as-extruded MgBZnD.5Zr and MgBOGdBYD.5Zr magnesium alloys by shot peening. <i>International Journal of Plasticity</i> , 2013 , 49, 16-35	7.6	56
233	Deformation behavior of MgInIId-based alloys reinforced with quasicrystal and Laves phases at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2007 , 427, 160-165	5.7	56
232	Effects of Zn and RE additions on the solidification behavior of MgBAl magnesium alloy. <i>Materials Science & Microstructure and Processing</i> , 2003 , 342, 178-182	5.3	56
231	Effect of Gd content on microstructure and mechanical properties of MgtdMtdr alloys under peak-aged condition. <i>Materials Science & Discourse and Processing</i> , 2014 , 615, 79-86	5.3	53
230	Deformation behavior and dynamic recrystallization of a Mg@n@@r alloy. <i>Materials Science &</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, 2006 , 428, 91-97	5.3	53

229	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	
228	Study of the effect of phase on hydrogen embrittlement of Inconel 718 by notch tensile tests. <i>Corrosion Science</i> , 2005 , 47, 355-367	6.8	52	
227	An investigation into interface formation and mechanical properties of aluminumBopper bimetal by squeeze casting. <i>Materials and Design</i> , 2016 , 89, 1137-1146	8.1	50	
226	Effects of heat treatments on Microstructure and mechanical properties of Mg@Y@SmD.5Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 448, 165-170	5.3	50	
225	NaBH4 in "Graphene Wrapper:" Significantly Enhanced Hydrogen Storage Capacity and Regenerability through Nanoencapsulation. <i>Advanced Materials</i> , 2015 , 27, 5070-4	24	48	
224	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	
223	Characterization of phases in MgBYBSmD.5Zr alloy processed by heat treatment. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 428, 295-300	5.3	48	
222	Effect of Sb on the microstructure and mechanical properties of AZ91 magnesium alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 787-794	2.3	47	
221	Microstructure and tensile properties of as-extruded Mg[li]In[I]d alloys reinforced with icosahedral quasicrystal phase. <i>Materials & Design</i> , 2015 , 66, 162-168		45	
220	Formability, mechanical and corrosive properties of MgNdInIIr magnesium alloy seamless tubes. <i>Materials & Design</i> , 2010 , 31, 1417-1422		43	
219	Effects of Nd on the microstructure of ZA52 alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 392, 229-234	5.3	43	
218	Effect of chemical composition on the microstructure, tensile properties and fatigue behavior of sand-cast MgtdvIr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 612, 293-301	5.3	42	
217	Hydrogen storage properties of MgIIMIa (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	
216	Continuous intermetallic compounds coatings on AZ91D Mg alloy fabricated by diffusion reaction of MgAl couples. <i>Surface and Coatings Technology</i> , 2011 , 205, 2907-2913	4.4	42	
215	Effect of cooling rate on the microstructure and mechanical properties of sand-casting MgIIOGdBYII.5Zr magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 562, 152-160	5.3	41	
214	Cyclic deformation and fatigue of extruded Mgtdd magnesium alloy. <i>Materials Science & Compile and Processing A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 561, 403-410	5.3	40	
213	An investigation into aluminum luminum bimetal fabrication by squeeze casting. <i>Materials & Design</i> , 2015 , 68, 8-17		39	
212	In vivo and in vitro evaluation of a biodegradable magnesium vascular stent designed by shape optimization strategy. <i>Biomaterials</i> , 2019 , 221, 119414	15.6	39	

211	Effect of Zn on the microstructure evolution of extruded MgBNd (In)Ir (wt.%) alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 543, 12-21	5.3	39	
210	Effect of quasicrystal and Laves phases on strength and ductility of as-extruded and heat treated MgInId-based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 472, 75-82	5.3	39	
209	Study on composite electroforming of Cu/SiCp composites. <i>Materials Letters</i> , 2004 , 58, 1634-1637	3.3	38	
208	Microstructure evolution and mechanical properties of Mg-Gd-Sm-Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 627, 223-229	5.3	37	
207	Effects of processing parameters and Ca content on microstructure and mechanical properties of squeeze casting AZ91fa alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 109-117	5.3	37	
206	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	
205	Fatigue behavior and plane-strain fracture toughness of sand-cast Mg🛮 0GdBY🛈.5Zr magnesium alloy. <i>Materials & Design</i> , 2014 , 59, 466-474		37	
204	Effect of low-frequency electromagnetic field on microstructures and macrosegregation of 270 mm DC ingots of an AlZnMgCuZr alloy. <i>Materials Letters</i> , 2005 , 59, 1502-1506	3.3	37	
203	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	
202	Preparation of an MgtddIn alloy semisolid slurry by low frequency electro-magnetic stirring. <i>Materials and Design</i> , 2015 , 84, 53-63	8.1	35	
201	Cyclic deformation and fatigue of extruded ZK60 magnesium alloy with aging effects. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 615, 262-272	5.3	35	
200	Effect of solid solution and aging treatments on the microstructures evolution and mechanical properties of Mgfl4GdflYfl.8Znfl.5Zr alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 557, 91-97	5.7	35	
199	Grain Refinement of Magnesium Alloys by Mg@r Master Alloys: The Role of Alloy Chemistry and Zr Particle Number Density. <i>Advanced Engineering Materials</i> , 2013 , 15, 373-378	3.5	35	
198	Characterization of precipitate phases in a MgDyGdNd alloy. <i>Journal of Alloys and Compounds</i> , 2007 , 439, 254-257	5.7	35	
197	Heat treatment, microstructure and mechanical properties of a MgtdM alloy grain-refined by Al additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 298-305	5.3	34	
196	Characterization of phases in a MgBGdBSm0.4Zr (wt.%) alloy during solution treatment. <i>Materials Characterization</i> , 2009 , 60, 555-559	3.9	34	
195	Electrochemical behavior of magnesium alloys AZ91D, AZCe2, and AZLa1 in chloride and sulfate solutions. <i>Journal of Applied Electrochemistry</i> , 2008 , 38, 251-257	2.6	34	
194	Behavior of MgAlta alloy during solution heat treatment at 415 the Journal of Materials Science Letters, 2002 , 21, 1281-1283		34	

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193	Effects of cyclic extrusion and compression on the microstructure and mechanical properties of AZ91D magnesium composites reinforced by SiC nanoparticles. <i>Materials Characterization</i> , 2017 , 126, 17-27	3.9	33	
192	Effect of extrusion ratio on microstructure and mechanical properties of MgBLiBAlQZnD.5Y alloy with duplex structure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 692, 9-16	5.3	33	
191	Preparation of MgNdIn(Zr) alloys semisolid slurry by electromagnetic stirring. <i>Materials and Design</i> , 2016 , 95, 398-409	8.1	33	
190	Microstructure and Mechanical Properties of Extruded Magnesium-Aluminum-Cerium Alloy Tubes. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 2662-267	74.3	33	
189	Hydrogen storage properties of core-shell structured Mg@TM (TMI≠ICo, V) composites. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15246-15255	6.7	32	
188	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	
187	Towards high ductility in magnesium alloys - The role of intergranular deformation. <i>International Journal of Plasticity</i> , 2019 , 123, 121-132	7.6	32	
186	A comparison study of MgN2O3 and MgN hydrogen storage composite powders prepared through arc plasma method. <i>Journal of Alloys and Compounds</i> , 2014 , 615, S684-S688	5.7	32	
185	Dry sliding wear of Cull 5NiBSn alloy. <i>Tribology International</i> , 2010 , 43, 64-68	4.9	32	
184	A study of fatigue damage development in extruded Mg@dM magnesium alloy. <i>Materials Science</i> & Structural Materials: Properties, Microstructure and Processing, 2014, 589, 209-216	5.3	31	
183	Grain refinement of Mg-10Gd alloy by Al additions. <i>Journal of Materials Research</i> , 2012 , 27, 2790-2797	2.5	31	
182	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	
181	Visualization of fast flydrogen pumplin corellhell nanostructured Mg@Pt through hydrogen-stabilized Mg3Pt. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14629-14637	13	30	
180	Mechanisms of reversible hydrogen storage in NaBH4 through NdF3 addition. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 3983	13	30	
179	Effects of Zn/Gd Ratio and Content of Zn, Gd on Phase Constitutions of Mg Alloys. <i>Materials Transactions</i> , 2008 , 49, 941-944	1.3	30	
178	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	
177	Identification of NdH2 particles in solution-treated MgI.5%Nd (wt.%) alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 485, 245-248	5.7	29	
176	Microstructure and mechanical properties of hot-rolled MgInNdIr alloys. <i>Materials Science</i> & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 483-484, 228-	230	29	

175	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
174	In vitro cytocompatibility, hemocompatibility and antibacterial properties of biodegradable Zn-Cu-Fe alloys for cardiovascular stents applications. <i>Materials Science and Engineering C</i> , 2020 , 113, 111007	8.3	28
173	Preparation and hydrogen sorption properties of a nano-structured Mg based Mg[lat] composite. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 13067-13073	6.7	28
172	High strength extruded MgBZnDNdI.5YD.6ZrD.4Ca alloy produced by electromagnetic casting. <i>Materials Letters</i> , 2005 , 59, 2549-2554	3.3	28
171	Effect of SiC particles and the particulate size on the hot deformation and processing map of AZ91 magnesium matrix composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2017 , 707, 315-324	5.3	27
170	Reversible hydrogen storage in a 3NaBH4/YF3 composite. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17118-17125	6.7	27
169	Gd contents, mechanical and corrosion properties of MgllOGdlYll.5Zr alloy purified by fluxes containing GdCl3 additions. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 507, 207-214	5.3	27
168	Evolution of microstructure and texture of AZ91 alloy during hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 452-453, 503-	-507	27
167	A Novel Method to Achieve Grain Refinement in Aluminum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 4788-4794	2.3	26
166	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
165	Effect of Shot Peening on Surface Characteristics and Fatigue Properties of T5-Treated ZK60 Alloy. <i>Materials Transactions</i> , 2009 , 50, 791-798	1.3	26
164	Effect of cerium on microstructures and mechanical properties of AZ61 wrought magnesium alloy. <i>Journal of Materials Science</i> , 2004 , 39, 7061-7066	4.3	26
163	Evaluation of the effect of vacuum on mold filling in the magnesium EPC process. <i>Journal of Materials Processing Technology</i> , 2002 , 120, 94-100	5.3	26
162	Hot-tearing susceptibility of MgBAl⊠Zn alloy. <i>Materials Letters</i> , 2002 , 57, 929-934	3.3	26
161	Study on hydrogen storage properties of MgX (X = Fe, Co, V) nano-composites co-precipitated from solution. <i>RSC Advances</i> , 2015 , 5, 7687-7696	3.7	25
160	Microstructure and mechanical properties of rheo-squeeze casting AZ91-Ca magnesium alloy prepared by gas bubbling process. <i>Materials & Design</i> , 2015 , 67, 1-8		25
159	Effect of temperature-induced solute distribution on stacking fault energy in $MgX(X = Li, Cu, Zn, Al, Y and Zr)$ solid solution: a first-principles study. <i>Philosophical Magazine</i> , 2014 , 94, 1578-1587	1.6	25
158	Effect of Cooling Rate on the Microstructure and Mechanical Properties of Cu/Al Bimetal Fabricated by Compound Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 661-672	2.3	24

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157	Improvement in grain refinement efficiency of Mg@r master alloy for magnesium alloy by friction stir processing. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 239-244	8.8	24	
156	Effects of Mn addition on the microstructure and mechanical properties of cast MgBAlZSn (wt.%) alloy. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 27-35	8.8	24	
155	Characterization of highly corrosion-resistant nanocrystalline Ni coating electrodeposited on MgNdInIr alloy from a eutectic-based ionic liquid. <i>Applied Surface Science</i> , 2014 , 313, 711-719	6.7	24	
154	Microstructure and mechanical properties of double continuously extruded MgIntid-based magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2013 , 560, 241-248	5.3	24	
153	The role of nanoquasicrystals on the ductility enhancement of as-extruded Mg@n@d alloy at elevated temperature. <i>Journal of Materials Science</i> , 2008 , 43, 5527-5533	4.3	24	
152	Influence of flux containing YCl3 additions on purifying effectiveness and properties of MgaloGdBY0.5Zr alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 480, 386-391	5.7	23	
151	Challenges and Solutions for the Additive Manufacturing of Biodegradable Magnesium Implants. <i>Engineering</i> , 2020 , 6, 1267-1275	9.7	23	
150	A combined electron backscattered diffraction and visco-plastic self-consistent analysis on the anisotropic deformation behavior in a Mg-Gd-Y alloy. <i>Materials and Design</i> , 2017 , 122, 164-171	8.1	22	
149	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	
148	Effects of cyclic extrusion and compression parameters on microstructure and mechanical properties of Mga.50Zna.25Gd alloy. <i>Materials and Design</i> , 2015 , 86, 788-796	8.1	22	
147	Effects of glycine and current density on the mechanism of electrodeposition, composition and properties of NiMn films prepared in ionic liquid. <i>Applied Surface Science</i> , 2016 , 365, 31-37	6.7	22	
146	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	
145	Microstructure evolution of semi-solid MgIIOGdBYII.5Zr alloy during isothermal heat treatment. Journal of Magnesium and Alloys, 2013, 1, 39-46	8.8	22	
144	Consolidation and mechanical properties of Cu46Zr42Al7Y5 metallic glass by spark plasma sintering. <i>Journal of Non-Crystalline Solids</i> , 2012 , 358, 1263-1267	3.9	22	
143	Microstructure refinement of Mg-Al-RE alloy by Gd addition. <i>Materials Letters</i> , 2019 , 246, 125-128	3.3	21	
142	The in vitro and in vivo biological effects and osteogenic activity of novel biodegradable porous Mg alloy scaffolds. <i>Materials and Design</i> , 2020 , 189, 108514	8.1	21	
141	Influence of processing parameters on thermal field in Mg\d\n\d\rangler alloy during friction stir processing. <i>Materials and Design</i> , 2016 , 94, 186-194	8.1	21	
140	Improving hydrogen sorption performances of MgH2 through nanoconfinement in a mesoporous CoS nano-boxes scaffold. <i>Chemical Engineering Journal</i> , 2021 , 406, 126790	14.7	21	

139	Microstructure characterization and high-temperature shear strength of the MgIIOGdBYII.2ZnII.5Zr alloy in the as-cast and aged conditions. <i>Journal of Alloys and Compounds</i> , 2015, 619, 826-833	5.7	20
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113	Modeling and Experimental Studies of Coating Delamination of Biodegradable Magnesium Alloy Cardiovascular Stents. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 3864-3873	5.5	16	
112	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	
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14	Effects of Gd Addition on the Microstructure and Tensile Properties of MglAlBRE Alloy Produced by Three Different Casting Methods. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021 , 34, 1361-1374	2.5	1

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13	Traditional Chinese medicine extracts as novel corrosion inhibitors for AZ91 magnesium alloy in saline environment <i>Scientific Reports</i> , 2022 , 12, 7367	4.9	1
12	Microstructure and Tensile Properties of the Mg-6Zn-4Al-xSn Die Cast Magnesium Alloy. <i>Metals</i> , 2019 , 9, 113	2.3	О
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10	Structure Design and Performance Research of WO 3 Hydrogen Gasochromic Film Prepared by Solvothermal Synthesis Assisted with Electrodeposition of Seed Layer. <i>Advanced Materials Interfaces</i> ,2101355	4.6	O
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8	Study on the Grain Refinement Behavior of Mg-Zr Master Alloy and Zr Containing Compounds in Mg-10Gd-3Y Magnesium Alloy 2011 , 181-185		O
7	Microstructure and mechanical properties of high performance die cast Al-8Ce-3Y aluminum alloy containing Al4(Ce,Y) phase. <i>Materials Letters</i> , 2021 , 305, 130742	3.3	O
6	A novel process for grain refinement of Mg-RE alloys by low frequency electro-magnetic stirring assisted near-liquidus squeeze casting. <i>Journal of Materials Processing Technology</i> , 2022 , 303, 117537	5.3	O
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