

Norbert Hort

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.

298 papers	8,966 citations	42 h-index	88 g-index
302 ext. papers	10,334 ext. citations	3.6 avg, IF	6.07 L-index

#	Paper	IF	Citations
298	Revisiting the tolerance limit of Fe impurity in biodegradable magnesium. <i>Scripta Materialia</i> , 2022 , 212, 114509	5.6	1
297	To Fail or Not to Fail. <i>Minerals, Metals and Materials Series</i> , 2022 , 165-168	0.3	
296	Nanomechanical Analysis and Fractography of Extruded Mg-Dy-Nd Based Alloy Influenced by Solution Heat Treatment. <i>Minerals, Metals and Materials Series</i> , 2022 , 181-187	0.3	
295	Electrical Resistivity of Binary Mg Alloys. <i>Minerals, Metals and Materials Series</i> , 2022 , 43-49	0.3	
294	urinary compatibility of Mg-Sr-Ag alloy in swine model. <i>Bioactive Materials</i> , 2022 , 7, 254-262	16.7	1
293	Observations of Microstructure-Oriented Crack Growth in a Cast Mg-Al-Ba-Ca Alloy under Tension, Compression and Fatigue. <i>Metals</i> , 2022 , 12, 613	2.3	0
292	Characterization of the deformation state of magnesium by electrical resistance. <i>Scripta Materialia</i> , 2022 , 215, 114712	5.6	0
291	The Video Microscopy-Linked Electrochemical Cell: An Innovative Method to Improve Electrochemical Investigations of Biodegradable Metals. <i>Materials</i> , 2021 , 14,	3.5	1
290	Utilizing Synchrotron Radiation for the Characterization of Biodegradable Magnesium Alloys From Alloy Development to the Application as Implant Material. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100197	3.5	5
289	Microstructure and mechanical properties of Mg-3Sn-1Ca reinforced with AlN nano-particles. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	4
288	Crack Propagation in As-Extruded and Heat-Treated Mg-Dy-Nd-Zn-Zr Alloy Explained by the Effect of LPSO Structures and Their Micro- and Nanohardness. <i>Materials</i> , 2021 , 14,	3.5	1
287	Investigations on the tensile deformation of pure Mg and Mg ₉₅ Gd alloy by in-situ X-ray synchrotron radiation and visco-plastic self-consistent modeling. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	1
286	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , 2021 , 121, 695-712	10.8	11
285	In vivo degradability and biocompatibility of a rheo-formed Mg ₉₅ Ni ₅ alloy for ureteral implantation. <i>Journal of Magnesium and Alloys</i> , 2021 ,	8.8	1
284	Effect of LPSO Phases on Crack Propagation in an Extruded Mg ₉₅ Dy ₅ Nd ₅ Zn ₅ Zr Alloy Influenced by Heat Treatment. <i>Minerals, Metals and Materials Series</i> , 2021 , 45-55	0.3	1
283	Interdiffusion and atomic mobility in hcp Mg ₉₅ Al ₅ Ni alloys. <i>Journal of Alloys and Compounds</i> , 2021 , 871, 159517	5.7	0
282	Mechanical behaviors of extruded Mg alloys with high Gd and Nd content. <i>Progress in Natural Science: Materials International</i> , 2021 , 31, 591-598	3.6	3

281	Microstructure and Fracture Toughness of an Extruded Mg-Dy-Nd-Zn-Zr Alloy Influenced by Heat Treatment. <i>Minerals, Metals and Materials Series</i> , 2021 , 19-26	0.3	2
280	Characterization of an Extruded Mg-Dy-Nd Alloy during Stress Corrosion with C-Ring Tests. <i>Metals</i> , 2020 , 10, 584	2.3	8
279	Effect of biaxial compressive stress state on the microstructure evolution and deformation compatibility of rolled sheet Mg alloy AZ31 at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 789, 139599	5.3	9
278	Dynamic tensile properties and microstructural evolution of extruded EW75 magnesium alloy at high strain rates. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 849-859	8.8	14
277	Achieving enhanced mechanical properties in Mg-Gd-Y-Zn-Mn alloy by altering dynamic recrystallization behavior via pre-ageing treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 790, 139635	5.3	18
276	Microstructure and mechanical properties of large-scale Mg-Gd-Y-Zn-Mn alloys prepared through semi-continuous casting. <i>Journal of Materials Science and Technology</i> , 2020 , 52, 72-82	9.1	9
275	Investigation on the Microstructure and Mechanical Properties of Mg-Gd-Nd Ternary Alloys. <i>Minerals, Metals and Materials Series</i> , 2020 , 79-85	0.3	
274	Effect of Nd Additions on the Mechanical Properties of Mg Binary Alloys. <i>Jom</i> , 2020 , 72, 517-525	2.1	1
273	Formation mechanism of the abnormal texture during extrusion in Mg-Y-Sm-Zn-Zr alloy. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153477	5.7	8
272	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. <i>Acta Biomaterialia</i> , 2020 , 116, 415-425	10.8	16
271	Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 5498-5515	2.3	4
270	Restoration Mechanisms at Moderate Temperatures for As-Cast ZK40 Magnesium Alloys Modified with Individual Ca and Gd Additions. <i>Crystals</i> , 2020 , 10, 1140	2.3	0
269	Effects of samarium content on microstructure and mechanical properties of Mg _{0.5} Zn _{0.5} Zr alloy. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1368-1377	9.1	42
268	Abnormal extrusion texture and reversed yield asymmetry in a Mg _{0.5} -Sm-Zn-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 760, 426-430	5.3	15
267	Calculation of Schmid factor in Mg alloys: Influence of stress state. <i>Scripta Materialia</i> , 2019 , 171, 31-35	5.6	26
266	Influences of AlN/Al Nanoparticles on the Creep Properties of Elektron21 Prepared by High Shear Dispersion Technology. <i>Jom</i> , 2019 , 71, 2245-2252	2.1	1
265	Unexpected Expansion Behavior of Mg-Al Alloys During Isothermal Ageing. <i>Jom</i> , 2019 , 71, 2906-2912	2.1	2
264	Developing a die casting magnesium alloy with excellent mechanical performance by controlling intermetallic phase. <i>Journal of Alloys and Compounds</i> , 2019 , 795, 436-445	5.7	30

263	Microscopic deformation compatibility during biaxial tension in AZ31 Mg alloy rolled sheet at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 756, 1-10	5.3	8
262	Effect of Alloying with Rare-Earth Metals on the Degradation of Magnesium Alloys Studied Using a Combination of Isothermal Calorimetry and Pressure Measurements. <i>Minerals, Metals and Materials Series</i> , 2019 , 121-126	0.3	2
261	Grain refinements of magnesium alloys inoculated by additions of external SiC particles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 529, 012049	0.4	1
260	Influence of Torsion on Precipitation and Hardening Effects during Aging of an Extruded AZ91 Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 4403-4414	1.6	4
259	Microstructures, Corrosion and Mechanical Properties of Mg-Bi Alloys as Biodegradable Implant Materials. <i>Minerals, Metals and Materials Series</i> , 2019 , 151-157	0.3	
258	Influences of SiC Particle Additions on the Grain Refinement of Mg-Zn Alloys. <i>Minerals, Metals and Materials Series</i> , 2019 , 331-338	0.3	1
257	Microstructures and mechanical properties of a hot-extruded Mg-B-Gd-Yb-1.2Zn-0.5Zr (wt%) alloy. <i>Journal of Alloys and Compounds</i> , 2019 , 776, 666-678	5.7	29
256	Intermetallic Phase Characteristics in the Mg-Nd-Zn System. <i>Minerals, Metals and Materials Series</i> , 2018 , 391-397	0.3	
255	Unraveling Recrystallization Mechanisms Governing Texture Development from Rare-Earth Element Additions to Magnesium. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018 , 49, 1809-1829	2.3	34
254	Corrosion behaviour of as-cast ZK40 with CaO and Y additions. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 427-439	3.3	7
253	Study on Mg-Bi-Br Ternary Alloys for Biomedical Applications. <i>Minerals, Metals and Materials Series</i> , 2018 , 413-424	0.3	
252	Deformation Mechanisms and Formability Window for As-Cast Mg-6Al-2Ca-1Sn-0.3Sr Alloy (MRI 230D). <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1440-1449	1.6	1
251	Influences of Yttrium Content on Microstructure and Mechanical Properties of as-cast Mg-Ca-Y-Zr Alloys. <i>Minerals, Metals and Materials Series</i> , 2018 , 91-97	0.3	
250	Mg Alloys: Challenges and Achievements in Controlling Performance, and Future Application Perspectives. <i>Minerals, Metals and Materials Series</i> , 2018 , 3-14	0.3	6
249	Microstructure and Mechanical Properties of Mg-Gd Alloys as Biodegradable Implant Materials. <i>Minerals, Metals and Materials Series</i> , 2018 , 253-262	0.3	1
248	Magnesium-Based Metal Matrix Nanocomposites Processing and Properties. <i>Minerals, Metals and Materials Series</i> , 2018 , 679-691	0.3	4
247	The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary Mg-RE Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800271	3.5	7
246	Hot Deformation Behavior and Processing Map of Mg-3Sn-2Ca-0.4Al-0.4Zn Alloy. <i>Metals</i> , 2018 , 8, 216	2.3	6

245	Enhancement of Strength and Hot Workability of AZX312 Magnesium Alloy by Disintegrated Melt Deposition (DMD) Processing in Contrast to Permanent Mold Casting. <i>Metals</i> , 2018 , 8, 437	2.3	4
244	Precipitation Hardening on Mechanical and Corrosion Properties of Extruded Mg10Gd Modified with Nd and La. <i>Metals</i> , 2018 , 8, 640	2.3	7
243	Strengthening and ductilizing of magnesium alloying with heavy rare earth elements. <i>MATEC Web of Conferences</i> , 2018 , 188, 03021	0.3	2
242	Current development of creep-resistant magnesium cast alloys: A review. <i>Materials and Design</i> , 2018 , 155, 422-442	8.1	82
241	The effect of Y addition on recrystallization and mechanical properties of Mg β Zn β Y0.5Ce0.4Zr alloys. <i>Vacuum</i> , 2018 , 155, 445-455	3.7	25
240	Effects of Gd solutes on hardness and yield strength of Mg alloys. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 724-730	3.6	30
239	Phase Formation during Solidification of Mg-Nd-Zn Alloys: An In Situ Synchrotron Radiation Diffraction Study. <i>Materials</i> , 2018 , 11,	3.5	3
238	Connected Process Design for Hot Working of a Creep-Resistant Mg β Al β Ba β Ca Alloy (ABaX422). <i>Metals</i> , 2018 , 8, 463	2.3	1
237	Review on Hot Working Behavior and Strength of Calcium-Containing Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1701102	3.5	12
236	Effects of extrusion ratio and annealing treatment on the mechanical properties and microstructure of a Mg β 1Gd β .5Y β Nd β .5Zn β .5Zr (wt%) alloy. <i>Journal of Materials Science</i> , 2017 , 52, 6670-6686	4.3	14
235	3D Microstructural Evolution on Solidifying Mg β Nd β Zn Alloy Observed via In Situ Synchrotron Tomography. <i>Minerals, Metals and Materials Series</i> , 2017 , 605-612	0.3	2
234	Influence of Dy in solid solution on the degradation behavior of binary Mg-Dy alloys in cell culture medium. <i>Materials Science and Engineering C</i> , 2017 , 75, 1351-1358	8.3	15
233	Recent research and developments on wrought magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 239-253	8.8	301
232	Microstructure and mechanical characterization of cast Mg-Ca-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 767-776	5.7	8
231	Microstructure and degradation performance of biodegradable Mg-Si-Sr implant alloys. <i>Materials Science and Engineering C</i> , 2017 , 71, 25-34	8.3	28
230	As cast microstructures on the mechanical and corrosion behaviour of ZK40 modified with Gd and Nd additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 682, 238-247	5.3	20
229	Microhardness and In Vitro Corrosion of Heat-Treated Mg-Y-Ag Biodegradable Alloy. <i>Materials</i> , 2017 , 10,	3.5	16
228	High Temperature Strength and Hot Working Technology for As-Cast Mg β Zn β Ca (ZX11) Alloy. <i>Metals</i> , 2017 , 7, 405	2.3	8

227	Optimization of Thermo-Mechanical Processing for Forging of Newly Developed Creep-Resistant Magnesium Alloy ABaX633. <i>Metals</i> , 2017 , 7, 513	2.3	3
226	Mechanism of Dynamic Recrystallization and Evolution of Texture in the Hot Working Domains of the Processing Map for Mg-4Al-2Ba-2Ca Alloy. <i>Metals</i> , 2017 , 7, 539	2.3	5
225	Influence of the Microstructure and Silver Content on Degradation, Cytocompatibility, and Antibacterial Properties of Magnesium-Silver Alloys In Vitro. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 8091265	6.7	30
224	Effects of Mn and Zn Solutes on Grain Refinement of Commercial Pure Magnesium. <i>Minerals, Metals and Materials Series</i> , 2017 , 191-198	0.3	1
223	Effects of Gadolinium and Neodymium Addition on Young's Modulus of Magnesium-Based Binary Alloys. <i>Minerals, Metals and Materials Series</i> , 2017 , 341-347	0.3	1
222	Voltammetric Studies of Extruded Pure Magnesium in Different Electrolytes and Its Corrosion Morphology. <i>Minerals, Metals and Materials Series</i> , 2017 , 429-437	0.3	2
221	Effect of the Zn Content on the Compression Behaviour of Mg5Nd(Zn): An In Situ Synchrotron Radiation Diffraction Study. <i>Minerals, Metals and Materials Series</i> , 2017 , 675-681	0.3	
220	Creep behavior of Mg-10Gd-xZn (x=2 and 6 wt%) alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 158-167	5.3	15
219	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 173-180	8.8	24
218	Role of Si in Grain Refinement of Aluminum-Free Mg-Zn Alloys 2016 , 177-181		
217	Hot Tearing Susceptibility of Mg-5Nd-xZn Alloys 2016 , 129-134		
216	Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Castability . <i>Advanced Engineering Materials</i> , 2016 , 18, 953-962	3.5	17
215	Forging of cast Mg-3Sn-2Ca-0.4Al-0.4Si magnesium alloy using processing map. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 2699-2705	1.6	4
214	Microstructure evolution of Mg-1Gd-0.5Y-1Nd-0.5Zn-0.5Zr (wt%) alloy during deformation and its effect on strengthening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 657, 259-268	5.3	14
213	Hot tearing characteristics of Mg-Ca-Zn alloys. <i>Journal of Materials Science</i> , 2016 , 51, 2687-2704	4.3	23
212	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg-1Sr alloy. <i>Acta Biomaterialia</i> , 2016 , 29, 455-467	10.8	68
211	Identification and description of intermetallic compounds in Mg-Si-Br cast and heat-treated alloys. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 123-133	5.7	5
210	In Situ Synchrotron Radiation Diffraction of the Solidification of Mg-Dy(-Zr) Alloys 2016 , 17-21		2

209 Hot Tearing Susceptibility of Mg-5Nd-xZn Alloys **2016**, 129-134

208 Advances in Manufacturing Processes for Magnesium Alloys **2016**, 19-24

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207 Elevated Temperature and Varied Load Response of AS41 at Bolted Joint **2016**, 511-516

206 Solid Solution Strengthening in Mg-Gd Alloys **2016**, 135-139

205 In Vitro Corrosion and Cytocompatibility Properties of Mg-2Gd-X(Ag, Ca) Alloys **2016**, 347-351

204 In Situ Synchrotron Radiation Diffraction of The Solidification of Mg-Dy(-Zr) Alloys **2016**, 15-21

203 Thermodynamic Description of Reactions between Mg and CaO **2016**, 67-72

1

202 The Role of Zn on the Elevated Temperature Compression Behavior of Mg5Nd: An In Situ Synchrotron Radiation Diffraction Study. *Jom*, **2016**, 68, 3051-3056

2.1 2

201 In vivo degradation of binary magnesium alloys in a long-term study. *BioNanoMaterials*, **2016**, 17,

8

200 In Vitro Corrosion and Cytocompatibility Properties of Mg-2Gd-X(Ag, Ca) Alloys **2016**, 347-351

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199 Influence of Precipitation Hardening in Mg-Y-Nd on Mechanical and Corrosion Properties. *Jom*, **2016**, 68, 1183-1190

2.1 15

198 In situ synchrotron radiation diffraction investigation of the compression behaviour at 350°C of ZK40 alloys with addition of CaO and Y. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 664, 2-9

5.3 10

197 Intramedullary Mg2Ag nails augment callus formation during fracture healing in mice. *Acta Biomaterialia*, **2016**, 36, 350-60

10.8 52

196 Solid Solution Strengthening in Mg-Gd Alloys **2016**, 135-139

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195 Comparative study of microstructure and texture of cast and homogenized TX32 magnesium alloy after hot deformation. *Metals and Materials International*, **2015**, 21, 134-146

2.4 7

194 High temperature mechanical behavior of an extruded Mg-1Gd-0.5Y-0.5Zn-0.5Zr (wt%) alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 645, 213-224

5.3 14

193 Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary Mg-Al alloys. *Journal of Alloys and Compounds*, **2015**, 648, 759-770

5.7 32

192 Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Microstructure, Tensile Properties, and Creep Resistance. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 3543-3554

2.3 91

191	Mechanical properties and corrosion behavior of Mg-Gd-Ca-Zr alloys for medical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 47, 38-48	4.1	30
190	Twin-Roll Casting after Intensive Melt Shearing and Subsequent Rolling of an AM30 Magnesium Alloy with Addition of CaO and SiC. <i>Materials Science Forum</i> , 2015 , 828-829, 35-40	0.4	3
189	In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 129-136	5.3	10
188	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 6003-6017	2.3	17
187	High Strength Magnesium Alloys Through Precipitation Hardening and Micro Alloying: Considerations for Alloy Design. <i>Jom</i> , 2015 , 67, 2427-2432	2.1	7
186	Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications. <i>Materials Science Forum</i> , 2015 , 828-829, 165-171	0.4	4
185	Microstructural evolution and mechanical properties of Mg-1Gd-0.5Y-0.5Zn-0.5Zr alloy prepared via pre-ageing and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 624, 23-31	5.3	55
184	Fabrication of a high strength Mg-1Gd-0.5Y-0.5Zn-0.5Zr (wt%) alloy by thermomechanical treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 622, 121-130	5.3	78
183	CaO dissolution during melting and solidification of a Mg-10 wt.% CaO alloy detected with in situ synchrotron radiation diffraction. <i>Journal of Alloys and Compounds</i> , 2015 , 618, 64-66	5.7	21
182	Twinning Assisted Crack Propagation of Magnesium-Rare Earth Casting and Wrought Alloys under Bending. <i>Materials Science Forum</i> , 2015 , 828-829, 311-317	0.4	5
181	Cytotoxicity of the Ga-containing coatings on biodegradable magnesium alloys. <i>Surface Innovations</i> , 2015 , 3, 10-19	1.9	7
180	Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications 2015 , 425-429		
179	Mechanical and Corrosive Properties of Two Magnesium Wires: Mg4Gd and Mg6Ag 2015 , 393-398		3
178	Mechanical and Corrosive Properties of Two Magnesium Wires: Mg4Gd and Mg6Ag 2015 , 391-398		
177	Magnesium Melt Protection. <i>Materials Science Forum</i> , 2015 , 828-829, 78-81	0.4	7
176	Effect of Zn addition on hot tearing behaviour of Mg-0.5Ca-0.5Zn alloys. <i>Materials and Design</i> , 2015 , 87, 157-170	8.1	30
175	Histological Comparison of New Biodegradable Magnesium-Based Implants for Maxillofacial Applications. <i>Journal of Maxillofacial and Oral Surgery</i> , 2015 , 14, 637-645	0.9	10
174	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2108-2118	2.3	23

173	In Situ Investigation of Microstructure Evolution during Solidification of Mg ₁₀ CaxGd (x=5, 10, 20) Alloys. <i>Acta Physica Polonica A</i> , 2015 , 128, 606-611	0.6	2
172	Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications 2015 , 425-429		
171	Investigations on microstructures, mechanical and corrosion properties of Mg ₉₀ Ca ₁₀ alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 224-234	5.3	84
170	In vitro mechanical and corrosion properties of biodegradable Mg ₉₀ Ag alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 569-576	1.6	51
169	Study of hot forging behavior of as-cast Mg ₉₀ Al ₁₀ Zn ₂ Ca alloy towards optimization of its hot workability. <i>Materials & Design</i> , 2014 , 57, 697-704		28
168	Understanding effects of microstructural inhomogeneity on creep response [New approaches to improve the creep resistance in magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 124-132	8.8	19
167	Measurement and calculation of the viscosity of metals[review of the current status and developing trends. <i>Measurement Science and Technology</i> , 2014 , 25, 062001	2	33
166	Hot tearing mechanisms of B206 aluminum[Copper alloy. <i>Materials & Design</i> , 2014 , 64, 44-55		33
165	Effect of aluminum on microstructural evolution during hot deformation of TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2014 , 49, 5885-5898	4.3	7
164	A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy. <i>Jom</i> , 2014 , 66, 322-328	2.1	4
163	Advances in Manufacturing Processes for Magnesium Alloys 2014 , 19-24		0
162	Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX320.4Al magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 11-23	5.3	12
161	Microstructures and mechanical properties of pure Mg processed by rotary swaging. <i>Materials & Design</i> , 2014 , 63, 83-88		34
160	Modification of Magnesium Alloys by Ceramic Particles in Gravity Die Casting. <i>International Journal of Metals</i> , 2014 , 2014, 1-7		2
159	Investigation of hot workability behavior of as-cast Mg ₉₅ Sn ₅ Ca (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , 2014 , 2, 241-252	3.3	3
158	Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. <i>Advanced Materials Research</i> , 2014 , 1019, 169-176	0.5	1
157	Corrosion behavior of Mg ₉₀ Ca ₁₀ based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 245-256	8.8	51
156	Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. <i>Advanced Materials Research</i> , 2014 , 996, 592-597	0.5	

155	Deformation-Induced Dynamic Precipitation during Creep in Magnesium-Tin Alloys. <i>Key Engineering Materials</i> , 2014 , 627, 365-368	0.4	1
154	Hot Forging of Cast Magnesium Alloy TX31 Using Semi-Closed Die and its Finite Element Simulation. <i>Materials Science Forum</i> , 2014 , 783-786, 449-454	0.4	1
153	Microstructure and Compression Creep Strength of the Newly Developed Magnesium Alloy DieMag422. <i>Advanced Materials Research</i> , 2014 , 1019, 177-183	0.5	
152	Influence of Nd in Extruded Mg10Gd Base Alloys on Fatigue Strength. <i>Materials Science Forum</i> , 2014 , 783-786, 419-424	0.4	3
151	Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 1-7	8.8	61
150	The interaction of precipitation and deformation in a binary Mg-Al alloy at elevated temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 609, 116-124	5.3	3
149	Experimental and numerical analysis of hot tearing susceptibility for Mg-Al alloys. <i>Journal of Materials Science</i> , 2014 , 49, 353-362	4.3	35
148	Crack Propagation Under Bending in Cast Mg10GdxNd-T4 Alloys 2014 , 77-82		
147	Investigation of biodegradation behaviour of an Mg-1Ca alloy influenced by heat treatment and applying plasma-chemical oxidation layers. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013 , 64, 578-584	1.6	5
146	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2285-2298	2.3	32
145	Bulk and local textures of pure magnesium processed by rotary swaging. <i>Journal of Magnesium and Alloys</i> , 2013 , 1, 341-345	8.8	17
144	Hot tearing susceptibility of binary Mg-Al alloy castings. <i>Materials & Design</i> , 2013 , 47, 90-100		63
143	Thermodynamic assessment and experimental study of Mg-Al alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 166-177	5.7	39
142	Microstructure and mechanical properties of as-cast Mg-Sn-Al alloys and effect of alloying elements. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 3604-3610	3.3	30
141	Microstructure, mechanical and corrosion properties of Mg-Dy-Gd-Zr alloys for medical applications. <i>Acta Biomaterialia</i> , 2013 , 9, 8499-508	10.8	64
140	Effects of Sn segregation and precipitates on creep response of Mg-Sn alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 308-315	3	12
139	Influence of Ce addition on microstructure and mechanical properties of high pressure die cast AM50 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 66-72	3.3	22
138	Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation. <i>Acta Biomaterialia</i> , 2013 , 9, 8475-87	10.8	72

137	Nucleation mechanism of Mg ₁₇ Al ₁₂ -precipitates in binary Mg $\bar{\bar{w}}$ wt.% Al alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 557, 73-76	5.7	9
136	Fast escape of hydrogen from gas cavities around corroding magnesium implants. <i>Acta Biomaterialia</i> , 2013 , 9, 8714-21	10.8	184
135	Effect of calcium addition on the hot working behavior of as-cast AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 272-279	5.3	21
134	In situ synchrotron diffraction of the solidification of Mg ₄ Y ₃ Nd. <i>Materials Letters</i> , 2013 , 102-103, 62-64	3.3	31
133	Development of a magnesium secondary alloy system for mixed magnesium post-consumer scrap. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 222-230	5.3	6
132	Comparison of different in vitro tests for biocompatibility screening of Mg alloys. <i>Acta Biomaterialia</i> , 2013 , 9, 8740-5	10.8	37
131	A New Magnesium Alloy System: TEXAS 2013 , 231-235		
130	Nucleation Kinetics of the β Phase in a Binary Mg-Al Alloy 2013 , 259-262		1
129	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2013 , 48, 5236-5246	4.3	20
128	High Temperature Deformation and Microstructural Features of TXA321 Magnesium Alloy: Correlations with Processing Map. <i>Advanced Engineering Materials</i> , 2013 , 15, 761-766	3.5	6
127	Residual Stresses in the Hot Sprues of as-cast Mg-Zn Alloys Investigated by STRESS-SPEC Neutron Diffractometer. <i>Materials Science Forum</i> , 2013 , 768-769, 428-432	0.4	
126	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. <i>Philosophical Magazine</i> , 2013 , 93, 4364-4377	1.6	14
125	Microstructure, Mechanical and Corrosion Properties of Mg-Gd-Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 28-32	0.4	4
124	Study of the Solidification of AS Alloys Combining In Situ Synchrotron Diffraction and Differential Scanning Calorimetry. <i>Materials Science Forum</i> , 2013 , 765, 286-290	0.4	14
123	Effect of Grain Size and Structure, Solid Solution Elements, Precipitates and Twinning on Nanohardness of Mg-RE Alloys. <i>Materials Science Forum</i> , 2013 , 765, 491-495	0.4	4
122	Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 306-310	0.4	10
121	Zone coulometry and ion-release analysis of degradable magnesium alloys. <i>Emerging Materials Research</i> , 2013 , 2, 248-262	1.4	2
120	Mechanical properties and corrosion behaviour of freestanding, precipitate-free magnesium WE43 thin films. <i>International Journal of Materials Research</i> , 2013 , 104, 286-292	0.5	7

119	Tailoring properties of cast Mg10Gd by alloying Nd and heat treatment. <i>Emerging Materials Research</i> , 2013 , 2, 229-238	1.4	5
118	A new magnesium alloy system: TEXAS 2013 , 231-235		
117	Ion release from magnesium materials in physiological solutions under different oxygen tensions. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 9-24	4.5	36
116	Hot Tearing Susceptibility of Magnesium–Gadolinium Binary Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2012 , 65, 701-706	1.2	3
115	High ductile as-cast MgRE based alloys at room temperature. <i>Materials Letters</i> , 2012 , 83, 209-212	3.3	14
114	Hot deformation behavior of Mg–Sn–Ca alloy in as-cast condition and after homogenization. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 552, 444-450	5.3	41
113	Corrosion behaviour of a nominally high purity Mg ingot produced by permanent mould direct chill casting. <i>Corrosion Science</i> , 2012 , 61, 185-207	6.8	129
112	Polycrystalline and amorphous MgZnCa thin films. <i>Corrosion Science</i> , 2012 , 63, 234-238	6.8	20
111	Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. <i>Corrosion Science</i> , 2012 , 65, 145-151	6.8	47
110	Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg-Dy alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012 , 13, 36-44	4.1	48
109	Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. <i>Materials Chemistry and Physics</i> , 2012 , 136, 1081-1091	4.4	19
108	Metal Matrix Composites: Magnesium 2012 , 1		1
107	Hot Deformation Mechanisms in AZ31 Magnesium Alloy Extruded at Different Temperatures: Impact of Texture. <i>Metals</i> , 2012 , 2, 292-312	2.3	15
106	Identification of unexpected hydrides in Mg20 wt% Dy alloy by high-brilliance synchrotron radiation. <i>Journal of Applied Crystallography</i> , 2012 , 45, 17-21	3.8	14
105	Development of High Performance Single-Phase Solid Solution Magnesium Alloy at Low Temperature. <i>Advanced Engineering Materials</i> , 2012 , 14, 178-184	3.5	8
104	The formation of Sr6.33Mg16.67Si13 in magnesium alloy AM50 and its effect on mechanical properties. <i>Journal of Materials Science</i> , 2012 , 47, 5461-5469	4.3	2
103	Effects of corrosion environment and proteins on magnesium corrosion. <i>Corrosion Engineering Science and Technology</i> , 2012 , 47, 335-339	1.7	55
102	Deformation Microstructures and Textures of Cast Mg-3Sn-2Ca Alloy under Uniaxial Hot Compression. <i>Applied Mechanics and Materials</i> , 2012 , 152-154, 322-325	0.3	

101	Mechanical and Corrosion Properties of as-cast and Extruded MG10GD alloy for Biomedical Application 2012 , 253-259		
100	Biodegradable Magnesium Implants - How Do They Corrode in-vivo? 2011 , 17-17		1
99	Investigations on Hot Tearing of Mg-Zn-(Al) Alloys 2011 , 125-130		11
98	Mechanical and corrosion properties of binary MgDy alloys for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1827-1834	3.1	65
97	Corrosion of experimental magnesium alloys in blood and PBS: A gravimetric and microscopic evaluation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1797-1801	3.1	25
96	Reprint of: Improved cytotoxicity testing of magnesium materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1773-1777	3.1	49
95	Blood triggered corrosion of magnesium alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1761-1766	3.1	38
94	Effect of fetal calf serum on the corrosion behaviour of magnesium alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1746-1755	3.1	13
93	Mechanism of grain refinement of MgAl alloys by SiC inoculation. <i>Scripta Materialia</i> , 2011 , 64, 793-796	5.6	60
92	Magnesium: An essential nutrient for a good biomaterial. <i>Jom</i> , 2011 , 63, 99-99	2.1	5
91	Chemical surface alteration of biodegradable magnesium exposed to corrosion media. <i>Acta Biomaterialia</i> , 2011 , 7, 2704-15	10.8	151
90	Compressive strength and hot deformation behavior of TX32 magnesium alloy with 0.4% Al and 0.4% Si additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 6964-6970	5.3	26
89	Improved cytotoxicity testing of magnesium materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 830-834	3.1	79
88	Effect of yttrium addition on lattice parameter, Young's modulus and vacancy of magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 2106-2109	5.3	33
87	Magnesium (Mg) corrosion: a challenging concept for degradable implants 2011 , 403-425		4
86	In Situ Studies of Light Metals with Synchrotron Radiation and Neutrons. <i>Materials Science Forum</i> , 2011 , 690, 192-197	0.4	
85	Corrosion Behavior of As-Cast Binary Mg-Dy Alloys. <i>Materials Science Forum</i> , 2011 , 690, 417-421	0.4	5
84	Mechanical Behaviour and Corrosion Performance of Thin Film Magnesium WE Alloys. <i>Materials Science Forum</i> , 2011 , 690, 286-289	0.4	4

83	Magnesium Permanent Mold Castings Optimization. <i>Materials Science Forum</i> , 2011 , 690, 65-68	0.4	59
82	Cyclic Deformation of Newly Developed Magnesium Cast Alloys in Corrosive Environment. <i>Materials Science Forum</i> , 2011 , 690, 495-498	0.4	4
81	Influence of Cerium on the Formation of Micro-Galvanic Corrosion Elements of AZ91. <i>Materials Science Forum</i> , 2011 , 690, 381-384	0.4	2
80	Modeling Bolt Load Retention of Ca Modified AS41 Using Compliance-Creep Method. <i>Materials Science Forum</i> , 2011 , 690, 278-281	0.4	
79	Compression Creep at 240°C of Extruded Magnesium Alloys Containing Gadolinium. <i>Materials Science Forum</i> , 2011 , 690, 270-273	0.4	7
78	Influence of composition on hot tearing in binary Mg-Zn alloys. <i>International Journal of Cast Metals Research</i> , 2011 , 24, 170-176	1	44
77	Castability of some Magnesium Alloys in a Novel Castability Die. <i>Materials Science Forum</i> , 2011 , 690, 61-64	0.4	2
76	Properties and processing of magnesium-tin-calcium alloys. <i>Metallic Materials</i> , 2011 , 49, 163-177	1.3	14
75	Investigations on Hot Tearing of Mg-Zn-(Al) Alloys 2011 , 125-130		2
74	Biodegradable Magnesium Implants □How do They Corrode in-Vivo? 2011 , 17-17		
73	Bolt Load Retention and Creep Response of AS41 Alloyed with 0.15 % Ca. <i>SAE International Journal of Materials and Manufacturing</i> , 2010 , 3, 202-210	1	
72	Effect of Minor Additions of Al and Si on the Mechanical Properties of Cast Mg-3Sn-2Ca Alloys in Low Temperature Range. <i>Materials Science Forum</i> , 2010 , 654-656, 635-638	0.4	9
71	High Temperature Deformation Mechanisms and Processing Map for Hot Working of Cast-Homogenized Mg-3Sn-2Ca Alloy. <i>Materials Science Forum</i> , 2010 , 638-642, 3616-3621	0.4	2
70	Aluminium-Rich Coring Structures in Mg-Al Alloys with Carbon Inoculation. <i>Materials Science Forum</i> , 2010 , 654-656, 675-678	0.4	1
69	Effect of thermal and mechanical treatments on the hot working response of Mg-3Sn-1Ca alloy. <i>International Journal of Materials Research</i> , 2010 , 101, 300-306	0.5	9
68	Status of the Development of Creep Resistant Magnesium Materials for Automotive Applications. <i>Materials Science Forum</i> , 2010 , 638-642, 73-80	0.4	14
67	Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell lines. <i>Acta Biomaterialia</i> , 2010 , 6, 1834-42	10.8	409
66	Preparation and properties of high purity Mg-Y biomaterials. <i>Biomaterials</i> , 2010 , 31, 398-403	15.6	149

65	Simulation of Stresses during Casting of Binary Magnesium-Aluminum Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2010 , 41, 3196-3207	2.3	24
64	XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, and Simulated Body Fluid. <i>Advanced Engineering Materials</i> , 2010 , 12, B699-B704	3.5	65
63	Magnesium alloys as implant materials--principles of property design for Mg-RE alloys. <i>Acta Biomaterialia</i> , 2010 , 6, 1714-25	10.8	411
62	Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays. <i>Acta Biomaterialia</i> , 2010 , 6, 1813-23	10.8	134
61	Influence of Strontium, Silicon and Calcium Additions on the Properties of the AM50 Alloy. <i>Materials Science Forum</i> , 2009 , 618-619, 459-462	0.4	2
60	Hot tearing behaviour of binary Mg-Al alloy using a contraction force measuring method. <i>International Journal of Cast Metals Research</i> , 2009 , 22, 331-334	1	32
59	Quantitative Determination on Hot Tearing in Mg-Al Binary Alloys. <i>Materials Science Forum</i> , 2009 , 618-619, 533-540	0.4	27
58	Numerical Determination of Heat Distribution and Castability Simulations of as Cast Mg-Al Alloys. <i>Advanced Engineering Materials</i> , 2009 , 11, 162-168	3.5	8
57	Optimum parameters and rate-controlling mechanisms for hot working of extruded Mg-Sn-Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 502, 25-31	5.3	52
56	Recycling of magnesium drive train components. <i>Science in China Series D: Earth Sciences</i> , 2009 , 52, 148-154		8
55	Investigation of minimum creep rates and stress exponents calculated from tensile and compressive creep data of magnesium alloy AE42. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 510-511, 382-386	5.3	44
54	Microstructure and corrosion behavior of Mg-Sn-Ca alloys after extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, 40-44	3.3	57
53	Three-dimensional microstructural analysis of Mg-Al-Zn alloys by synchrotron-radiation-based microtomography. <i>Scripta Materialia</i> , 2008 , 58, 453-456	5.6	18
52	Effects of segregation of primary alloying elements on the creep response in magnesium alloys. <i>Scripta Materialia</i> , 2008 , 58, 894-897	5.6	8
51	Hot working parameters and mechanisms in as-cast Mg-Sn-Ca alloy. <i>Materials Letters</i> , 2008 , 62, 4207-4209	3.9	55
50	Evolution of microstructure and hardness of AE42 alloy after heat treatments. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 238-245	5.7	35
49	Phase equilibria, thermodynamics and solidification microstructures of Mg-Sn-Ca alloys, Part 2: Prediction of phase formation in Mg-rich Mg-Sn-Ca cast alloys. <i>Intermetallics</i> , 2008 , 16, 316-321	3.5	61
48	Degradable biomaterials based on magnesium corrosion. <i>Current Opinion in Solid State and Materials Science</i> , 2008 , 12, 63-72	12	1291

47	Influence of Processing Route on the Properties of Magnesium Alloys. <i>Solid State Phenomena</i> , 2008 , 141-143, 43-48	0.4	3
46	Mechanical Properties and Corrosion Performance of AZ-Mg Alloy Modified with Ca and Sr. <i>SAE International Journal of Materials and Manufacturing</i> , 2008 , 1, 103-110	1	3
45	Progress and Challenge for Magnesium Alloys as Biomaterials. <i>Advanced Engineering Materials</i> , 2008 , 10, B3-B14	3.5	479
44	Hot workability characteristics of cast and homogenized Mg ₃ Sn ₂ Ca alloy. <i>Journal of Materials Processing Technology</i> , 2008 , 201, 359-363	5.3	42
43	Effect of Microstructural Inhomogeneity on Creep Response of Mg-Sn Alloys. <i>Key Engineering Materials</i> , 2007 , 345-346, 561-564	0.4	14
42	Effect of Heat Treatment on the Microstructure and Creep Behavior of Mg-Sn-Ca Alloys. <i>Materials Science Forum</i> , 2007 , 546-549, 69-72	0.4	41
41	Biodegradable magnesium-hydroxyapatite metal matrix composites. <i>Biomaterials</i> , 2007 , 28, 2163-74	15.6	482
40	Creep behavior of AE42 based hybrid composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 268-276	5.3	28
39	Development of a Magnesium Recycling Alloy Based on AM50. <i>Materials Science Forum</i> , 2007 , 539-543, 108-113	0.4	1
38	High Temperature Deformation Behaviour of a New Magnesium Alloy. <i>Key Engineering Materials</i> , 2007 , 340-341, 89-94	0.4	19
37	Intermetallics in Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2006 , 8, 235-240	3.5	180
36	Enhancement of Workability in AZ31 Alloy [Processing Maps: Part I, Cast Material. <i>Advanced Engineering Materials</i> , 2006 , 8, 966-973	3.5	23
35	Powder Metallurgically Manufactured Metal Matrix Composites 2006 , 243-276		7
34	Investigations on thermal fatigue of aluminum- and magnesium-alloy based composites. <i>International Journal of Fatigue</i> , 2006 , 28, 1399-1405	5	17
33	Investigations in the Magnesium-Tin System. <i>Materials Science Forum</i> , 2005 , 488-489, 135-138	0.4	38
32	Tensile and compressive creep behaviour of Al ₂ O ₃ (Saffil®) short fiber reinforced magnesium alloy AE42. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 410-411, 85-88	5.3	35
31	Microstructural investigations of interfaces in short fiber reinforced AlSi ₁₂ CuMgNi composites. <i>Acta Materialia</i> , 2005 , 53, 3913-3923	8.4	15
30	Analysis of instantaneous thermal expansion coefficient curve during thermal cycling in short fiber reinforced AlSi ₁₂ CuMgNi composites. <i>Composites Science and Technology</i> , 2005 , 65, 137-147	8.6	21

29	A Critical Review of the Stress Corrosion Cracking (SCC) of Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2005 , 7, 659-693	3.5	329
28	Microstructural Development in Tension and Compression Creep of Magnesium Alloy AE42. <i>Materials Science Forum</i> , 2005 , 482, 271-274	0.4	3
27	Some studies on the thermal-expansion behavior of C-fiber, SiC p , and In-situ Mg ₂ Si-reinforced AZ31 Mg alloy-based hybrid composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 1167-1176	2.3	23
26	Micro-Strain Induced by Thermal Cycling in Short Fiber Reinforced AlSi ₁₂ CuMgNi Piston Alloy and AE42 Magnesium Alloy. <i>Advanced Engineering Materials</i> , 2004 , 6, 883-888	3.5	5
25	Thermal behavior of short fiber reinforced AlSi ₁₂ CuMgNi piston alloys. <i>Composites Part A: Applied Science and Manufacturing</i> , 2004 , 35, 249-263	8.4	27
24	New Development in Magnesium Technology for Light Weight Structures in Transportation Industries. <i>Materials Science Forum</i> , 2003 , 426-432, 153-160	0.4	18
23	Influence of Heat Treatment on Microstructure of Hot Extruded AZ31. <i>Materials Science Forum</i> , 2003 , 419-422, 297-302	0.4	1
22	Corrosion Behaviour of Magnesium Alloys with RE Additions in Sodium Chloride Solutions. <i>Materials Science Forum</i> , 2003 , 419-422, 867-872	0.4	17
21	Some Studies on Mg Alloy Reinforced with Ceramic Discontinuous Phases. <i>Materials Science Forum</i> , 2003 , 419-422, 837-844	0.4	1
20	Effect of Thermal Treatment on Thermal Expansion Behaviour of Magnesium Alloy Based Hybrid Composites. <i>Materials Science Forum</i> , 2003 , 426-432, 2027-2032	0.4	1
19	Effects of Y Additions on the Microstructures and Mechanical Behaviours of as Cast Mg ₉₀ Y ₁₀ Al _{0.5} Zr _{0.5} Alloys. <i>Advanced Engineering Materials</i> , 2101033	3.5	0
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