# Karl Kainer

### List of Publications by Citations

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#	Paper	IF	Citations
367	Degradable biomaterials based on magnesium corrosion. <i>Current Opinion in Solid State and Materials Science</i> , <b>2008</b> , 12, 63-72	12	1291
366	Effect of rare earth additions on microstructure and texture development of magnesium alloy sheets. <i>Scripta Materialia</i> , <b>2010</b> , 63, 725-730	5.6	536
365	Magnesium alloys as implant materialsprinciples of property design for Mg-RE alloys. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 1714-25	10.8	411
364	A Critical Review of the Stress Corrosion Cracking (SCC) of Magnesium Alloys. <i>Advanced Engineering Materials</i> , <b>2005</b> , 7, 659-693	3.5	329
363	General and localized corrosion of magnesium alloys: A critical review. <i>Journal of Materials Engineering and Performance</i> , <b>2004</b> , 13, 7-23	1.6	315
362	Recent research and developments on wrought magnesium alloys. <i>Journal of Magnesium and Alloys</i> , <b>2017</b> , 5, 239-253	8.8	301
361	Review of studies on corrosion of magnesium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2006</b> , 16, s763-s771	3.3	286
360	Effect of rare earth elements on the microstructure and texture development in magnesium thanganese alloys during extrusion. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2010</b> , 527, 7092-7098	5.3	277
359	Deformation and texture evolution in AZ31 magnesium alloy during uniaxial loading. <i>Acta Materialia</i> , <b>2006</b> , 54, 549-562	8.4	276
358	Plasma electrolytic oxidation coatings with particle additions IA review. <i>Surface and Coatings Technology</i> , <b>2016</b> , 307, 1165-1182	4.4	271
357	Study of the structure and corrosion behavior of PEO coatings on AM50 magnesium alloy by electrochemical impedance spectroscopy. <i>Surface and Coatings Technology</i> , <b>2008</b> , 202, 3513-3518	4.4	213
356	Microstructure and texture development during hydrostatic extrusion of magnesium alloy AZ31. <i>Scripta Materialia</i> , <b>2005</b> , 53, 259-264	5.6	199
355	Intermetallics in Magnesium Alloys. Advanced Engineering Materials, 2006, 8, 235-240	3.5	180
354	Plasma electrolytic oxidation coatings on Mg alloy with addition of SiO2 particles. <i>Electrochimica Acta</i> , <b>2016</b> , 187, 20-33	6.7	170
353	Preparation and properties of high purity Mg-Y biomaterials. <i>Biomaterials</i> , <b>2010</b> , 31, 398-403	15.6	149
352	On the influence of the grain size and solute content on the AE response of magnesium alloys tested in tension and compression. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2007</b> , 462, 302-306	5.3	139
351	Fatigue of Magnesium Alloys. <i>Advanced Engineering Materials</i> , <b>2004</b> , 6, 281-289	3.5	138

# (2011-2008)

350	Characterisation of stress corrosion cracking (SCC) of MgAl alloys. <i>Materials Science &amp; amp;</i> Engineering A: Structural Materials: Properties, Microstructure and Processing, <b>2008</b> , 488, 339-351	5.3	133
349	The role of anions in the formation and corrosion resistance of the plasma electrolytic oxidation coatings. <i>Surface and Coatings Technology</i> , <b>2010</b> , 204, 1469-1478	4.4	120
348	Tensile properties of hot rolled AZ31 Mg alloy sheets at elevated temperatures. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 378, 184-187	5.7	99
347	Comparison of the linearly increasing stress test and the constant extension rate test in the evaluation of transgranular stress corrosion cracking of magnesium. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2008</b> , 472, 97-106	5.3	97
346	Metallographische Gefgeuntersuchungen von Magnesiumlegierungen / The Metallographical Examination of Magnesium Alloys. <i>Praktische Metallographie/Practical Metallography</i> , <b>2004</b> , 41, 233-246	0.3	86
345	Surface modification of magnesium alloy AZ31 by hydrofluoric acid treatment and its effect on the corrosion behaviour. <i>Thin Solid Films</i> , <b>2010</b> , 518, 5209-5218	2.2	85
344	Investigations on microstructures, mechanical and corrosion properties of Mgtdan alloys.  Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 595, 224-234	5.3	84
343	Corrosion of an extruded magnesium alloy ZK60 component he role of microstructural features. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 4462-4469	5.7	84
342	Insights into plasma electrolytic oxidation treatment with particle addition. <i>Corrosion Science</i> , <b>2015</b> , 101, 201-207	6.8	78
341	Evaluation of the delayed hydride cracking mechanism for transgranular stress corrosion cracking of magnesium alloys. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 466, 18-31	5.3	78
340	Anisotropic Properties of Magnesium Sheet AZ31. Materials Science Forum, 2003, 419-422, 315-320	0.4	76
339	Corrosion protection of magnesium alloy AZ31 sheets by spin coating process with poly(ether imide) [PEI]. <i>Corrosion Science</i> , <b>2010</b> , 52, 2066-2079	6.8	74
338	Corrosion of friction stir welded magnesium alloy AM50. Corrosion Science, 2009, 51, 1738-1746	6.8	73
337	Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8475-87	10.8	72
336	Influence of inorganic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet. <i>Corrosion Science</i> , <b>2009</b> , 51, 2544-2556	6.8	72
335	Investigation of the formation mechanisms of plasma electrolytic oxidation coatings on Mg alloy AM50 using particles. <i>Electrochimica Acta</i> , <b>2016</b> , 196, 680-691	6.7	70
334	Calcium and zirconium as texture modifiers during rolling and annealing of magnesium linc alloys. <i>Materials Characterization</i> , <b>2015</b> , 101, 144-152	3.9	67
333	Mechanical and corrosion properties of binary MgDy alloys for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2011</b> , 176, 1827-1834	3.1	65

332	Microstructure, mechanical and corrosion properties of Mg-Dy-Gd-Zr alloys for medical applications. <i>Acta Biomaterialia</i> , <b>2013</b> , 9, 8499-508	10.8	64
331	Hot tearing susceptibility of binary MgN alloy castings. <i>Materials &amp; Design</i> , <b>2013</b> , 47, 90-100		63
330	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. <i>Surface and Coatings Technology</i> , <b>2015</b> , 269, 155-169	4.4	62
329	Fracture toughness behaviour of a magnesium alloy metal-matrix composite produced by the infiltration technique. <i>Composites</i> , <b>1991</b> , 22, 456-462		62
328	Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , <b>2014</b> , 2, 1-7	8.8	61
327	Phase equilibria, thermodynamics and solidification microstructures of MgBnfa alloys, Part 2: Prediction of phase formation in Mg-rich MgBnfa cast alloys. <i>Intermetallics</i> , <b>2008</b> , 16, 316-321	3.5	61
326	Fundamentals of magnesium alloy metallurgy 2013,		61
325	Mechanism of grain refinement of MgAl alloys by SiC inoculation. <i>Scripta Materialia</i> , <b>2011</b> , 64, 793-796	5.6	60
324	Magnesium Permanent Mold Castings Optimization. <i>Materials Science Forum</i> , <b>2011</b> , 690, 65-68	0.4	59
323	Magnesium global development: Outcomes from the TMS 2007 annual meeting. <i>Jom</i> , <b>2007</b> , 59, 39-42	2.1	59
322	Fractography of Stress Corrosion Cracking of Mg-Al Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1157-1173	2.3	58
321	Microstructure and corrosion behavior of Mg-Sn-Ca alloys after extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2009</b> , 19, 40-44	3.3	57
320	Orientation effects on acoustic emission during tensile deformation of hot rolled magnesium alloy AZ31. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 378, 207-213	5.7	56
319	Hot working parameters and mechanisms in as-cast MgBSnIICa alloy. <i>Materials Letters</i> , <b>2008</b> , 62, 4207-4	12:09	55
318	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography. <i>Corrosion Science</i> , <b>2018</b> , 139, 395-402	6.8	55
317	Influence of incorporating Si3N4 particles into the oxide layer produced by plasma electrolytic oxidation on AM50 Mg alloy on coating morphology and corrosion properties. <i>Journal of Magnesium and Alloys</i> , <b>2013</b> , 1, 267-274	8.8	52
316	Optimum parameters and rate-controlling mechanisms for hot working of extruded MgBSnIICa alloy. <i>Materials Science &amp; Discourse and Processing</i> , <b>2009</b> , 502, 25-31	5.3	52
315	Testing of general and localized corrosion of magnesium alloys: A critical review. <i>Journal of Materials Engineering and Performance</i> , <b>2004</b> , 13, 517-529	1.6	52

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In vitro mechanical and corrosion properties of biodegradable MgAg alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2014</b> , 65, 569-576	1.6	51
Corrosion behavior of Mgtddn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , <b>2014</b> , 2, 245-256	8.8	51
Effects of organic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet. <i>Corrosion Science</i> , <b>2010</b> , 52, 2143-2154	6.8	50
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> , <b>2012</b> , 13, 36-44	4.1	48
Magnesium secondary alloys: Alloy design for magnesium alloys with improved tolerance limits against impurities. <i>Corrosion Science</i> , <b>2010</b> , 52, 2452-2468	6.8	48
Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. <i>Corrosion Science</i> , <b>2012</b> , 65, 145-151	6.8	47
Corrosion protection of magnesium AZ31 alloy using poly(ether imide) [PEI] coatings prepared by the dip coating method: Influence of solvent and substrate pre-treatment. <i>Corrosion Science</i> , <b>2011</b> , 53, 338-346	6.8	47
Influence of microstructure on tensile properties and fatigue crack growth in extruded magnesium alloy AM60. <i>International Journal of Fatigue</i> , <b>2010</b> , 32, 411-419	5	47
Influence of Rolling Conditions on the Microstructure and Mechanical Properties of Magnesium Sheet AZ31. <i>Advanced Engineering Materials</i> , <b>2003</b> , 5, 891-896	3.5	46
Waste Mg-Al based alloys for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 16	738 <del>7</del> 16	74 <u>1</u> 81
Investigation of minimum creep rates and stress exponents calculated from tensile and		
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Discourse ing A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 510-511, 382-386	5.3	44
compressive creep data of magnesium alloy AE42. Materials Science & amp; Engineering A: Structural	5.3	44
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Discourse A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 510-511, 382-386  Influence of composition on hot tearing in binary MgIn alloys. <i>International Journal of Cast Metals</i>		
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 510-511, 382-386  Influence of composition on hot tearing in binary Mg\(\mathbb{Z}\)n alloys. <i>International Journal of Cast Metals Research,</i> <b>2011</b> , 24, 170-176  Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic	1	44
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> <b>2009</b> , 510-511, 382-386  Influence of composition on hot tearing in binary Mg\(\mathbb{Z}\)n alloys. <i>International Journal of Cast Metals Research,</i> <b>2011</b> , 24, 170-176  Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy. <i>Corrosion Science,</i> <b>2016</b> , 112, 483-494  Hot workability characteristics of cast and homogenized Mg\(\mathbb{B}\)Sn\(\mathbb{I}\)Ca alloy. <i>Journal of Materials</i>	6.8	44
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Discourse Materials: Properties, Microstructure and Processing,</i> 2009, 510-511, 382-386  Influence of composition on hot tearing in binary Mg\(\text{In}\) alloys. <i>International Journal of Cast Metals Research,</i> 2011, 24, 170-176  Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy. <i>Corrosion Science,</i> 2016, 112, 483-494  Hot workability characteristics of cast and homogenized Mg\(\text{BSn}\) (Ca alloy. <i>Journal of Materials Processing Technology,</i> 2008, 201, 359-363  Hot deformation behavior of Mg\(\text{QSn}\) (Ca alloy in as-cast condition and after homogenization. <i>Materials Science &amp; Discourse Materials &amp; Discourse &amp; Di</i>	6.8 5.3	44 43 42
compressive creep data of magnesium alloy AE42. <i>Materials Science &amp; Discourse Materials: Properties, Microstructure and Processing,</i> 2009, 510-511, 382-386  Influence of composition on hot tearing in binary Mg\(\mathbb{Z}\)n alloys. <i>International Journal of Cast Metals Research,</i> 2011, 24, 170-176  Influence of surface pre-treatment on the deposition and corrosion properties of hydrophobic coatings on a magnesium alloy. <i>Corrosion Science,</i> 2016, 112, 483-494  Hot workability characteristics of cast and homogenized Mg\(\mathbb{B}\)Sn\(\mathbb{I}\)Ca alloy. <i>Journal of Materials Processing Technology,</i> 2008, 201, 359-363  Hot deformation behavior of Mg\(\mathbb{Q}\)Sn\(\mathbb{Z}\)Ca alloy in as-cast condition and after homogenization. <i>Materials Science &amp; Discourse Materials Science &amp; Discourse Materials: Properties, Microstructure and Processing,</i> 2012, 552, 444-450	<ul><li>6.8</li><li>5.3</li><li>5.3</li></ul>	44 43 42 41
	Effects of organic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet. Corrosion Science, 2010, 52, 2143-2154  Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg-Dy alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 36-44  Magnesium secondary alloys: Alloy design for magnesium alloys with improved tolerance limits against impurities. Corrosion Science, 2010, 52, 2452-2468  Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. Corrosion Science, 2012, 65, 145-151  Corrosion protection of magnesium AZ31 alloy using poly(ether imide) [PEI] coatings prepared by the dip coating method: Influence of solvent and substrate pre-treatment. Corrosion Science, 2011, 53, 338-346  Influence of microstructure on tensile properties and fatigue crack growth in extruded magnesium alloy AM60. International Journal of Fatigue, 2010, 32, 411-419  Influence of Rolling Conditions on the Microstructure and Mechanical Properties of Magnesium Sheet AZ31. Advanced Engineering Materials, 2003, 5, 891-896  Waste Mg-Al based alloys for hydrogen storage. International Journal of Hydrogen Energy, 2018, 43, 16	Effects of organic acid pickling on the corrosion resistance of magnesium alloy AZ31 sheet.  Corrosion Science, 2010, 52, 2143-2154  Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg-Dy alloys. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 13, 36-44  Magnesium secondary alloys: Alloy design for magnesium alloys with improved tolerance limits against impurities. Corrosion Science, 2010, 52, 2452-2468  Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy.  Corrosion Science, 2012, 65, 145-151  Corrosion protection of magnesium AZ31 alloy using poly(ether imide) [PEI] coatings prepared by the dip coating method: Influence of solvent and substrate pre-treatment. Corrosion Science, 2011, 53, 338-346  Influence of microstructure on tensile properties and fatigue crack growth in extruded magnesium alloy AM60. International Journal of Fatigue, 2010, 32, 411-419  Influence of Rolling Conditions on the Microstructure and Mechanical Properties of Magnesium Sheet AZ31. Advanced Engineering Materials, 2003, 5, 891-896  Waste Mg-Al based alloys for hydrogen storage. International Journal of Hydrogen Energy, 2018, 43, 1673B716

296	Magnesium-base hybrid composites prepared by liquid infiltration. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1991</b> , 135, 33-36	5.3	41
295	High cycle fatigue behaviour of magnesium alloys. <i>Procedia Engineering</i> , <b>2010</b> , 2, 743-750		40
294	Stress Relaxation in AX41 Magnesium Alloy Studied at Elevated Temperatures. <i>Advanced Engineering Materials</i> , <b>2007</b> , 9, 370-374	3.5	40
293	Thermodynamic assessment and experimental study of Mgtd alloys. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 581, 166-177	5.7	39
292	Investigations in the Magnesium-Tin System. <i>Materials Science Forum</i> , <b>2005</b> , 488-489, 135-138	0.4	38
291	Hydrostatic extrusion of commercial magnesium alloys at 100°C and its influence on grain refinement and mechanical properties. <i>Materials Science &amp; Description of Commercial Materials: Properties, Microstructure and Processing</i> , <b>2006</b> , 424, 223-229	5.3	38
290	Stress corrosion cracking behaviour of a surface-modified magnesium alloy. <i>Scripta Materialia</i> , <b>2008</b> , 59, 43-46	5.6	37
289	Basics of Metal Matrix Composites <b>2006</b> , 1-54		37
288	Controlled degradation of a magnesium alloy in simulated body fluid using hydrofluoric acid treatment followed by polyacrylonitrile coating. <i>Corrosion Science</i> , <b>2012</b> , 62, 83-89	6.8	36
287	Mg sheet: the effect of process parameters and alloy composition on texture and mechanical properties. <i>Jom</i> , <b>2009</b> , 61, 38-42	2.1	36
286	The Effect of Grain Size on the Deformation Behaviour of Magnesium Alloys Investigated by the Acoustic Emission Technique. <i>Advanced Engineering Materials</i> , <b>2006</b> , 8, 422-427	3.5	36
285	Investigation of the mechanical behaviour of magnesium composites. <i>Composites</i> , <b>1994</b> , 25, 296-302		36
284	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy. <i>Surface and Coatings Technology</i> , <b>2016</b> , 289, 179-185	4.4	35
283	Experimental and numerical analysis of hot tearing susceptibility for MgM alloys. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 353-362	4.3	35
282	Evolution of microstructure and hardness of AE42 alloy after heat treatments. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 463, 238-245	5.7	35
281	Tensile and compressive creep behaviour of Al2O3 (Saffill) short fiber reinforced magnesium alloy AE42. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 410-411, 85-88	5.3	35
280	Microstructures and mechanical properties of pure Mg processed by rotary swaging. <i>Materials &amp; Design</i> , <b>2014</b> , 63, 83-88		34
279	Spray Forming of Magnesium Alloys and Composites. <i>Powder Metallurgy</i> , <b>1997</b> , 40, 126-130	1.9	34

278	Measurement and calculation of the viscosity of metals review of the current status and developing trends. <i>Measurement Science and Technology</i> , <b>2014</b> , 25, 062001	2	33
277	Hot tearing mechanisms of B206 aluminumBopper alloy. <i>Materials &amp; Design</i> , <b>2014</b> , 64, 44-55		33
276	Influence of aging on damping of the magnesium luminium linc series. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 437, 127-132	5.7	33
275	Influence of particle additions on corrosion and wear resistance of plasma electrolytic oxidation coatings on Mg alloy. <i>Surface and Coatings Technology</i> , <b>2018</b> , 352, 1-14	4.4	32
274	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2013</b> , 44, 2285-2298	2.3	32
273	Study on the interface of PVDF coatings and HF-treated AZ31 magnesium alloy: Determination of interfacial interactions and reactions with self-healing properties. <i>Corrosion Science</i> , <b>2011</b> , 53, 712-719	6.8	32
272	Hot tearing behaviour of binary MgIAl alloy using a contraction force measuring method. <i>International Journal of Cast Metals Research</i> , <b>2009</b> , 22, 331-334	1	32
271	Wrought magnesium alloys for structural applications. <i>Materials Science and Technology</i> , <b>2008</b> , 24, 991-	9 <b>9.</b> 6	32
270	Acoustic emission during stress relaxation of pure magnesium and AZ magnesium alloys. <i>Materials Science &amp; Microstructure and Processing</i> , <b>2007</b> , 462, 307-310	5.3	32
269	Deformation mechanisms in an AZ31 cast magnesium alloy as investigated by the acoustic emission technique. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 462, 297-301	5.3	32
268	In situ synchrotron diffraction of the solidification of Mg4Y3Nd. <i>Materials Letters</i> , <b>2013</b> , 102-103, 62-64	3.3	31
267	Influence of heat treatment on the properties of short-fibre-reinforced magnesium composites.  Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 1991, 135, 243-246	5.3	31
266	Mechanical properties and corrosion behavior of Mg-Gd-Ca-Zr alloys for medical applications. Journal of the Mechanical Behavior of Biomedical Materials, <b>2015</b> , 47, 38-48	4.1	30
265	Microstructure and mechanical properties of as-cast MgBnta alloys and effect of alloying elements. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2013</b> , 23, 3604-3610	3.3	30
264	Effect of Zn addition on hot tearing behaviour of MgD.5Ca\Zn alloys. <i>Materials and Design</i> , <b>2015</b> , 87, 157-170	8.1	30
263	New Perspectives for Wrought Magnesium Alloys. <i>Materials Science Forum</i> , <b>2007</b> , 546-549, 1-10	0.4	30
262	Effects of Gd solutes on hardness and yield strength of Mg alloys. <i>Progress in Natural Science:</i> Materials International, <b>2018</b> , 28, 724-730	3.6	30
261	Role of deformation mechanisms and grain growth in microstructure evolution during recrystallization of Mg-Nd based alloys. <i>Scripta Materialia</i> , <b>2019</b> , 166, 53-57	5.6	29

260	Stress Corrosion Cracking (SCC) in Mg-Al Alloys Studied using Compact Specimens. <i>Advanced Engineering Materials</i> , <b>2008</b> , 10, 453-458	3.5	29
259	Study of hot forging behavior of as-cast MgBAlIIZnIICa alloy towards optimization of its hot workability. <i>Materials &amp; Design</i> , <b>2014</b> , 57, 697-704		28
258	Creep behavior of AE42 based hybrid composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 460-461, 268-276	5.3	28
257	Stress corrosion cracking in magnesium alloys: Characterization and prevention. <i>Jom</i> , <b>2007</b> , 59, 49-53	2.1	28
256	General and Localized Corrosion of Magnesium Alloys: A Critical Review. <i>Journal of Materials Engineering and Performance</i> , <b>2013</b> , 22, 2875-2891	1.6	27
255	Quantitative Determination on Hot Tearing in Mg-Al Binary Alloys. <i>Materials Science Forum</i> , <b>2009</b> , 618-619, 533-540	0.4	27
254	Thermal behavior of short fiber reinforced AlSi12CuMgNi piston alloys. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2004</b> , 35, 249-263	8.4	27
253	Acoustic emission during tensile testing of magnesium AZ alloys. <i>Journal of Alloys and Compounds</i> , <b>2004</b> , 378, 214-219	5.7	27
252	Experimental and numerical crushing analyses of thin-walled magnesium profiles. <i>International Journal of Crashworthiness</i> , <b>2015</b> , 20, 177-190	1	26
251	Compressive strength and hot deformation behavior of TX32 magnesium alloy with 0.4% Al and 0.4% Si additions. <i>Materials Science &amp; Discourse ing A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2011</b> , 528, 6964-6970	5.3	26
250	Microstructure Changes in Isochronally Annealed Alumina Fibre Reinforced MgAgNdar Alloy. <i>Physica Status Solidi A</i> , <b>1997</b> , 164, 709-723		26
249	Influence of the Processing of Magnesium Alloys AZ31 and ZE10 on the Sheet Formability at Elevated Temperature. <i>Key Engineering Materials</i> , <b>2011</b> , 473, 335-342	0.4	25
248	Resistivity Changes Due to Precipitation Effects in Fibre Reinforced MgAlanMn Alloy. <i>Physica Status Solidi A</i> , <b>1997</b> , 161, 85-95		25
247	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. <i>Journal of Magnesium and Alloys</i> , <b>2016</b> , 4, 173-180	8.8	24
246	Corrosion of AZ 91 Secondary Magnesium Alloy. Advanced Engineering Materials, 2005, 7, 1134-1142	3.5	24
245	Hot tearing characteristics of Mg᠒Ca᠒Zn alloys. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 2687-2704	4.3	23
244	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> , <b>2015</b> , 46, 2108-2118	2.3	23
243	Enhancement of Workability in AZ31 Alloy Processing Maps: Part I, Cast Material. <i>Advanced Engineering Materials</i> , <b>2006</b> , 8, 966-973	3.5	23

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242	AZ31 Mg alloy-based hybrid composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2004</b> , 35, 1167-1176	2.3	23	
241	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> , <b>2013</b> , 23, 66-72	3.3	22	
240	CaO dissolution during melting and solidification of a MgIIO wt.% CaO alloy detected with in situ synchrotron radiation diffraction. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 618, 64-66	5.7	21	
239	Effect of calcium addition on the hot working behavior of as-cast AZ31 magnesium alloy. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2013</b> , 588, 272-279	5.3	21	
238	Magnesium powder injection moulding for biomedical application. <i>Powder Metallurgy</i> , <b>2014</b> , 57, 331-34	01.9	21	
237	Interrupted creep behaviour of Mg alloys developed for powertrain applications. <i>Materials Science</i> & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, <b>2010</b> , 527, 2289-229	9€ <sup>.3</sup>	21	
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235	Microstructure evolution and tensile properties of friction-stir-welded AM50 magnesium alloy. Transactions of Nonferrous Metals Society of China, 2008, 18, s76-s80	3.3	21	
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231	Synchrotron Radiation Investigation of Twinning in Extruded Magnesium Alloy AZ3l. <i>Materials Science Forum</i> , <b>2005</b> , 495-497, 1633-1638	0.4	21	
230	As cast microstructures on the mechanical and corrosion behaviour of ZK40 modified with Gd and Nd additions. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2017</b> , 682, 238-247	5.3	20	
229	Polycrystalline and amorphous MgZnCa thin films. <i>Corrosion Science</i> , <b>2012</b> , 63, 234-238	6.8	20	
228	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 5236-5246	4.3	20	
227	Influence of Process Parameters on Twin Roll Cast Strip of the Alloy AZ31. <i>Materials Science Forum</i> , <b>2013</b> , 765, 205-209	0.4	20	
226	Microstructure and creep behaviour of magnesium hybrid composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2007</b> , 462, 220-224	5.3	20	
225	Analysis of thermal cycling curves of short fibre reinforced Mg-MMCs. <i>Composites Science and Technology</i> , <b>2003</b> , 63, 1805-1814	8.6	20	

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223	Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. <i>Materials Chemistry and Physics</i> , <b>2012</b> , 136, 1081-1091	4.4	19
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221	Thermal diffusivity of short-fibre reinforced Mg-Al-Zn-Mn alloy. <i>Scripta Materialia</i> , <b>1998</b> , 40, 57-62	5.6	19
220	High Temperature Deformation Behaviour of a New Magnesium Alloy. <i>Key Engineering Materials</i> , <b>2007</b> , 340-341, 89-94	0.4	19
219	Enhancing the creep resistance of AlN/Al nanoparticles reinforced Mg-2.85Nd-0.92Gd-0.41Zr-0.29Zn alloy by a high shear dispersion technique. <i>Materials Science</i> & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 755, 18-27	5.3	18
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217	Influence of Nd or Ca addition on the dislocation activity and texture changes of MgIn alloy sheets under uniaxial tensile loading. <i>Materials Science &amp; Dislocation A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 761, 138053	5.3	18
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215	The effect of zirconium addition on sintering behaviour, microstructure and creep resistance of the powder metallurgy processed alloy Ti45Al6Nb0.2B0.2C. <i>Materials and Design</i> , <b>2015</b> , 84, 87-94	8.1	17
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212	Effect of aluminium and calcium on the microstructure, texture, plastic deformation and related acoustic emission of extruded magnesium can be alloys. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 617, 253-264	5.7	17
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209	Corrosion Behaviour of Magnesium Alloys with RE Additions in Sodium Chloride Solutions. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 867-872	0.4	17
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207	Influence of electrolyte constituents on corrosion behaviour of PEO coatings on magnesium alloys. <i>Surface Engineering</i> , <b>2010</b> , 26, 321-327	2.6	16

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205	Interface formation in carbon fibre reinforced magnesium alloys (AZ91). <i>Journal of Materials Science Letters</i> , <b>1995</b> , 14, 358-360		16
204	A model describing the growth of a PEO coating on AM50 Mg alloy under constant voltage mode. <i>Electrochimica Acta</i> , <b>2017</b> , 251, 461-474	6.7	16
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202	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> , <b>2017</b> , 75, 1351-1358	8.3	15
201	Hot Deformation Mechanisms in AZ31 Magnesium Alloy Extruded at Different Temperatures: Impact of Texture. <i>Metals</i> , <b>2012</b> , 2, 292-312	2.3	15
200	Analysing hysteresis and residual strains in thermal cycling curves of short fibre reinforced Mg-MMCs. <i>Composites Science and Technology</i> , <b>2004</b> , 64, 1179-1189	8.6	15
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198	Metallurgical Characterization of Hot Tearing Curves Recorded during Solidification of Magnesium Alloys. <i>Acta Physica Polonica A</i> , <b>2012</b> , 122, 497-500	0.6	15
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189	Properties and processing of magnesium-tin-calcium alloys. <i>Metallic Materials</i> , <b>2011</b> , 49, 163-177	1.3	14

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180	Investigations on Hot Tearing of Mg-Zn-(Al) Alloys <b>2011</b> , 125-130		11
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179 178	Production of High Strength AlMgBc Alloys by PM. <i>Powder Metallurgy</i> , <b>1998</b> , 41, 119-122  Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , <b>1993</b> , 3, 489-505	1.9	11
	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder		
178	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , <b>1993</b> , 3, 489-505  Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological		11
178 177	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , <b>1993</b> , 3, 489-505  Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 695-712  Influence of SiO2 Particles on the Corrosion and Wear Resistance of Plasma Electrolytic	10.8	11
178 177 176	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , <b>1993</b> , 3, 489-505  Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 695-712  Influence of SiO2 Particles on the Corrosion and Wear Resistance of Plasma Electrolytic Oxidation-Coated AM50 Mg Alloy. <i>Coatings</i> , <b>2018</b> , 8, 306  In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. <i>Materials Science &amp; Degraphic Engineering A: Structural Materials:</i>	10.8	11 11 11
178 177 176	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , <b>1993</b> , 3, 489-505  Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 695-712  Influence of SiO2 Particles on the Corrosion and Wear Resistance of Plasma Electrolytic Oxidation-Coated AM50 Mg Alloy. <i>Coatings</i> , <b>2018</b> , 8, 306  In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. <i>Materials Science &amp; Degram Science S</i>	10.8 2.9 5.3	11 11 11 10
178 177 176 175	Mechanical behaviour of magnesium alloy MMCs produced by squeeze casting and powder metallurgical techniques. <i>Composites Part B: Engineering</i> , 1993, 3, 489-505  Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , 2021, 121, 695-712  Influence of SiO2 Particles on the Corrosion and Wear Resistance of Plasma Electrolytic Oxidation-Coated AM50 Mg Alloy. <i>Coatings</i> , 2018, 8, 306  In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 640, 129-136  Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. <i>Materials Science Forum</i> , 2013, 765, 306-310  Development of the Microstructure and Texture of RE Containing Magnesium Alloys during Hot	10.8 2.9 5.3	11 11 11 10 10

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152	The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary MgRE Alloys. <i>Advanced Engineering Materials</i> , <b>2018</b> , 20, 1800271	3.5	7
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148	From titanium to magnesium: processing by advanced metal injection moulding. <i>Powder Metallurgy</i> , <b>2012</b> , 55, 315-321	1.9	7
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129	Simulation assisted investigation of substrate geometry impact on PEO coating formation. <i>Surface and Coatings Technology</i> , <b>2018</b> , 350, 281-297	4.4	5
128	Enhanced predictive corrosion modeling with implicit corrosion products. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 2247-2255	1.6	5
127	Research with Neutron and Synchrotron Radiation on Aerospace and Automotive Materials and Components. <i>Advanced Engineering Materials</i> , <b>2011</b> , 13, 637-657	3.5	5
126	Corrosion Behavior of As-Cast Binary Mg-Dy Alloys. <i>Materials Science Forum</i> , <b>2011</b> , 690, 417-421	0.4	5
125	Effects of Processing, Texture and Temperature on the Formability of AZ31 and ZE10 Sheets. <i>Materials Science Forum</i> , <b>2011</b> , 690, 298-301	0.4	5
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122	Status report on the ORPHEUS dark matter detector and on its SQUID readout system. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>1999</b> , 70, 101-105		5
121	Powder Metallurgically Produced Metal <b>G</b> lass Composites. <i>Powder Metallurgy</i> , <b>1984</b> , 27, 30-38	1.9	5
120	Corrosion and Creep Resistance of Thixomolded Magnesium Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 381-389	0.3	4
119	Effects of heat treatment on the microstructural evolution and creep resistance of Elektron21 alloy and its nanocomposite. <i>Materials Science &amp; Discourse and Processing</i> , 2020, 789, 139669	5.3	4
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115	A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy. <i>Jom</i> , <b>2014</b> , 66, 322-328	2.1	4
114	Influence of Die Lubricants on Pickling and Conversion Treatment of High-Pressure Die-Cast AM30 Magnesium Alloy. <i>Advanced Engineering Materials</i> , <b>2012</b> , 14, 227-235	3.5	4
113	Microstructure, Mechanical and Corrosion Properties of Mg-Gd-Zn Alloys. <i>Materials Science Forum</i> , <b>2013</b> , 765, 28-32	0.4	4
112	Vermeidung von Bimetallkorrosion	0.9	4
111	Hydrostatic and Indirect Extrusion of AZ-Magnesium Alloys. <i>Materials Science Forum</i> , <b>2005</b> , 488-489, 49 <sup>-7</sup>	I <b>⊛</b> 1294	4
110	Electrical Resistometry of Mg-Based Microcrystalline Alloys and Mg-Based Composites. <i>Materials Science Forum</i> , <b>1996</b> , 210-213, 635-642	0.4	4
109	Stress Relaxation of Short Fiber Reinforced Mg Metal Matrix Composites after Thermal Cycling. <i>Materials Science Forum</i> , <b>1996</b> , 210-213, 503-510	0.4	4
108	Effect of Thermal Cycling on the Damping Behaviour of Mg Matrix Composites. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 993-1000	0.4	4
107	Properties of PM-manufactured 6061 Al-base composite materials strengthened with 🗟 lumina fibers. <i>Composites Part B: Engineering</i> , <b>1991</b> , 1, 363-374		4
106	Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture <b>2011</b> , 373-378		4
105	Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2020</b> , 51, 5498-5515	2.3	4
104	Predictive modeling of long-time crevice evolution at e-coat defects under climate chamber test conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2017</b> , 68, 699-710	1.6	3
103	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> , <b>2015</b> , 828-829, 35-40	0.4	3
102	Sintering behaviour of TiØ5AlØNbØ.2BØ.2C alloy modifications by additions of elemental titanium and aluminium. <i>Powder Metallurgy</i> , <b>2015</b> , 58, 369-375	1.9	3
101	Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , <b>2014</b> , 2, 241-252	3.3	3
100	Hot Tearing Susceptibility of Magnesium Gadolinium Binary Alloys. <i>Transactions of the Indian Institute of Metals</i> , <b>2012</b> , 65, 701-706	1.2	3
99	Improving Corrosion Resistance of Mg10Gd Alloy. <i>Materials Science Forum</i> , <b>2013</b> , 765, 673-677	0.4	3

98	Global Magnesium Research: State-of-the-Art and What's Next? <b>2011</b> , 5-5		3	
97	Magnesium Matrix Composites: State-of the-Art and what the Future. <i>Advanced Materials Research</i> , <b>2011</b> , 410, 275-278	0.5	3	
96	Effects of Welding Conditions on Microstructural Transformations and Mechanical Properties in AE42-HP Friction Welded Joints. <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2008</b> , 52, 10-17	1.9	3	
95	Influence of Processing Route on the Properties of Magnesium Alloys. <i>Solid State Phenomena</i> , <b>2008</b> , 141-143, 43-48	0.4	3	
94	Mechanical Properties and Corrosion Performance of AZ-Mg Alloy Modified with Ca and Sr. <i>SAE International Journal of Materials and Manufacturing</i> , <b>2008</b> , 1, 103-110	1	3	
93	Creep Behaviour of Magnesium Monolithic Alloys and Composites. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 805-810	0.4	3	
92	Microstructural Development in Tension and Compression Creep of Magnesium Alloy AE42. <i>Materials Science Forum</i> , <b>2005</b> , 482, 271-274	0.4	3	
91	Investigations in the Magnesium-Tin System. <i>Materials Science Forum</i> ,135-138	0.4	3	
90	3D Microstructural Evolution on Solidifying MgBNdBZn Alloy Observed via In Situ Synchrotron Tomography. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 605-612	0.3	2	
89	Unexpected Expansion Behavior of Mg-Al Alloys During Isothermal Ageing. <i>Jom</i> , <b>2019</b> , 71, 2906-2912	2.1	2	
88	Thixomolded AZ91D and MRI153M magnesium alloys and their enhanced corrosion resistance. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2020</b> , 71, 339-351	1.6	2	
87	Deformation and Recrystallization Mechanisms and Their Influence on the Microstructure Development of Rare Earth Containing Magnesium Sheets. <i>Minerals, Metals and Materials Series</i> , <b>2018</b> , 209-216	0.3	2	
86	Magnesium Pistons in Engines: Fiction or Fact?. Minerals, Metals and Materials Series, 2018, 349-353	0.3	2	
85	Challenges and Solutions in the Development of Magnesium Sheet for Sustainable Vehicle Concepts. <i>Materials Science Forum</i> , <b>2015</b> , 828-829, 15-22	0.4	2	
84	The formation of Sr6.33Mg16.67Si13 in magnesium alloy AM50 and its effect on mechanical properties. <i>Journal of Materials Science</i> , <b>2012</b> , 47, 5461-5469	4.3	2	
83	FormabiHty of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture <b>2011</b> , 373-378		2	
82	High Temperature Deformation Mechanisms and Processing Map for Hot Working of Cast-Homogenized Mg-3Sn-2Ca Alloy. <i>Materials Science Forum</i> , <b>2010</b> , 638-642, 3616-3621	0.4	2	
81	Influence of Strontium, Silicon and Calcium Additions on the Properties of the AM50 Alloy. <i>Materials Science Forum</i> , <b>2009</b> , 618-619, 459-462	0.4	2	

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79	New Developments in Extruded Magnesium Alloys for Structural Applications. <i>Materials Science Forum</i> , <b>2007</b> , 561-565, 1545-1548	0.4	2
78	First runs with the ORPHEUS dark matter detector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , <b>2002</b> , 110, 106-108		2
77	The Texture Evolutions of Mg Alloy, AZ31, under Uni-Axial Loading. <i>Materials Science Forum</i> , <b>2005</b> , 495-497, 1585-1590	0.4	2
76	Internal friction in magnesium reinforced by short Al2O3 fibres after thermal cycling. <i>European Physical Journal D</i> , <b>1999</b> , 49, 349-358		2
75	Deformation of Continuous Carbon Fibre Reinforced Mg-Alloys by Thermally Induced Stresses. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 861-868	0.4	2
74	In Situ Investigation of Microstructure Evolution during Solidification of Mg10CaxGd (x=5, 10, 20) Alloys. <i>Acta Physica Polonica A</i> , <b>2015</b> , 128, 606-611	0.6	2
73	Profile Shape Effect on the Texture and Mechanical Properties of Extruded Rare Earth Containing Magnesium Alloys. <i>Acta Physica Polonica A</i> , <b>2018</b> , 134, 714-719	0.6	2
72	Microstructure and Mechanical Properties of Ca Containing AZX310 Alloy Sheets Produced via Twin Roll Casting Technology <b>2016</b> , 383-387		2
71	Investigations on Hot Tearing of Mg-Zn-(Al) Alloys <b>2011</b> , 125-130		2
70	Magnesium and Magnesium Alloys. Springer Handbooks, 2018, 151-159	1.3	2
69	The Role of Zn on the Elevated Temperature Compression Behavior of Mg5Nd: An In Situ Synchrotron Radiation Diffraction Study. <i>Jom</i> , <b>2016</b> , 68, 3051-3056	2.1	2
68	Solid Solution Strengthening in Mg-Gd Alloys <b>2016</b> , 135-139		2
67	Formability of Magnesium Sheet ZE10 AND AZ31 with Respect to Initial Texture357-362		2
66	Influences of AlN/Al Nanoparticles on the Creep Properties of Elektron21 Prepared by High Shear Dispersion Technology. <i>Jom</i> , <b>2019</b> , 71, 2245-2252	2.1	1
65	Grain refinements of magnesium alloys inoculated by additions of external SiC particles. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 529, 012049	0.4	1
64	Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. <i>Advanced Materials Research</i> , <b>2014</b> , 1019, 169-176	0.5	1
63	Deformation-Induced Dynamic Precipitation during Creep in Magnesium-Tin Alloys. <i>Key Engineering Materials</i> , <b>2014</b> , 627, 365-368	0.4	1

62	Hot Forging of Cast Magnesium Alloy TX31 Using Semi-Closed Die and its Finite Element Simulation. <i>Materials Science Forum</i> , <b>2014</b> , 783-786, 449-454	0.4	1
61	Influence of Lanthanum Concentration on the Corrosion Behaviour of Binary Mg-La Alloys <b>2011</b> , 507-5	11	1
60	Aluminium-Rich Coring Structures in Mg-Al Alloys with Carbon Inoculation. <i>Materials Science Forum</i> , <b>2010</b> , 654-656, 675-678	0.4	1
59	Effects of Ceramic Inoculants and Intermetallic Phases on Hot Rolled AZ Magnesium Wrought Alloys. <i>Materials Science Forum</i> , <b>2011</b> , 690, 306-310	0.4	1
58	Influence of Crystallographic Texture on the High Cycle Fatigue of Extruded AZ31 Magnesium Alloy. <i>Materials Science Forum</i> , <b>2011</b> , 690, 319-322	0.4	1
57	Achievements in Deep Drawing of Magnesium Alloy Sheets. <i>Materials Science Forum</i> , <b>2011</b> , 690, 302-30	50.4	1
56	Development of a Magnesium Recycling Alloy Based on AM50. <i>Materials Science Forum</i> , <b>2007</b> , 539-543, 108-113	0.4	1
55	Particles, Fibers and Short Fibers for the Reinforcement of Metal Materials <b>2006</b> , 55-76		1
54	Influence of Heat Treatment on Microstructure of Hot Extruded AZ31. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 297-302	0.4	1
53	Thermal Cycling of Mg-MMCs. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 2119-2124	0.4	1
52	Some Studies on Mg Alloy Reinforced with Ceramic Discontinuous Phases. <i>Materials Science Forum</i> , <b>2003</b> , 419-422, 837-844	0.4	1
51	Effect of Thermal Treatment on Thermal Expansion Behaviour of Magnesium Alloy Based Hybrid Composites. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 2027-2032	0.4	1
50	Consolidation of Rapidly Quenched Powders. Solid State Phenomena, 1991, 8-9, 135-148	0.4	1
49	Revisiting the tolerance limit of Fe impurity in biodegradable magnesium. <i>Scripta Materialia</i> , <b>2022</b> , 212, 114509	5.6	1
48	Effects of Mn and Zn Solutes on Grain Refinement of Commercial Pure Magnesium. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 191-198	0.3	1
47	Effects of Gadolinium and Neodymium Addition on Young Modulus of Magnesium-Based Binary Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2017</b> , 341-347	0.3	1
46	Advances in Manufacturing Processes for Magnesium Alloys <b>2016</b> , 19-24		1
45	Die Leichtbauwerkstoffe f⊞den Fahrzeugbau <b>2017</b> , 205-449		1

44	Effect of Nd Additions on the Mechanical Properties of Mg Binary Alloys. <i>Jom</i> , <b>2020</b> , 72, 517-525	2.1	1
43	Thermodynamic Description of Reactions between Mg and CaO <b>2016</b> , 67-72		1
42	Influences of SiC Particle Additions on the Grain Refinement of MgIIn Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 331-338	0.3	1
41	Advances in Manufacturing Processes for Magnesium Alloys <b>2014</b> , 19-24		O
40	Effects of Y Additions on the Microstructures and Mechanical Behaviours of as Cast Mglk Y0.5Zr Alloys. <i>Advanced Engineering Materials</i> ,2101033	3.5	О
39	Influence of Lanthanum concentration on the Corrosion Behaviour of Binary Mg-La Alloys <b>2011</b> , 507-51		O
38	Axial fatigue testing of TiBAlBV using an alternative specimen geometry fabricated by metal injection moulding. <i>Powder Metallurgy</i> , <b>2016</b> , 59, 344-349	1.9	0
37	The Use of Neutron and Synchrotron Research for Aerospace and Automotive Materials and Components <b>2017</b> , 327-364		
36	The Role of Second Phases on the Creep Behavior of As-Cast and Hot-Extruded Mg-Ca-Zr Alloys. <i>Jom</i> , <b>2019</b> , 71, 2227-2234	2.1	
35	Influences of Yttrium Content on Microstructure and Mechanical Properties of as-cast MgCaNar Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2018</b> , 91-97	0.3	
34	Towards Active Corrosion Protection of Mg Alloys Using Corrosion Inhibition Approaches. <i>Minerals, Metals and Materials Series</i> , <b>2018</b> , 19-20	0.3	
33	In Situ Tensile Texture Analysis of a New Mg-RE Alloy. <i>Materials Science Forum</i> , <b>2016</b> , 879, 779-783	0.4	
32	Microstructure and Mechanical Properties of Ca Containing AZX310 Alloy Sheets Produced via Twin Roll Casting Technology <b>2016</b> , 383-387		
31	Role of Sic in Grain Refinement of Aluminum-Free Mg-Zn Alloys <b>2016</b> , 177-181		
30	Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. <i>Advanced Materials Research</i> , <b>2014</b> , 996, 592-597	0.5	
29	Microstructure and Compression Creep Strength of the Newly Developed Magnesium Alloy DieMag422. <i>Advanced Materials Research</i> , <b>2014</b> , 1019, 177-183	0.5	
28	A New Magnesium Alloy System: TEXAS <b>2013</b> , 231-235		
27	Acoustic Emission Study of Mg-Mn Extruded Alloys with Prospective Mechanical Properties. <i>Materials Science Forum</i> , <b>2013</b> , 765, 537-542	0.4	

26	Compressive Strength and Hot Deformation Behavior of TX32 Magnesium Alloy with 0.4% Al and 0.4% Si Additions <b>2011</b> , 169-174	
25	Bolt Load Retention and Creep Response of AS41 Alloyed with 0.15 % Ca. <i>SAE International Journal of Materials and Manufacturing</i> , <b>2010</b> , 3, 202-210	1
24	In Situ Studies of Light Metals with Synchrotron Radiation and Neutrons. <i>Materials Science Forum</i> , <b>2011</b> , 690, 192-197	0.4
23	Influence of Rare Earth Addition on Texture Development during Static Recrystallization and Mechanical Behaviour of Magnesium Alloy Sheets. <i>Materials Science Forum</i> , <b>2011</b> , 702-703, 651-654	0.4
22	Modeling Bolt Load Retention of Ca Modified AS41 Using Compliance-Creep Method. <i>Materials Science Forum</i> , <b>2011</b> , 690, 278-281	0.4
21	Deformation Microstructures and Textures of Cast Mg-3Sn-2Ca Alloy under Uniaxial Hot Compression. <i>Applied Mechanics and Materials</i> , <b>2012</b> , 152-154, 322-325	0.3
20	Priority Programme of the German Research Foundation: 'Extending the Range of Applications for Magnesium Alloys'. <i>Materials Science Forum</i> , <b>2005</b> , 488-489, 905-908	0.4
19	High Speed Steel Sludge Waste as a Starting Material for Wear Resistance Components. <i>Key Engineering Materials</i> , <b>1996</b> , 127-131, 533-542	0.4
18	Influence of Third Alloying Element on Dislocation Slip and Twinning Activities in MgMd-Based Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2022</b> , 97-103	0.3
17	Cold Formability of Extruded Magnesium Bands. <i>Minerals, Metals and Materials Series</i> , <b>2020</b> , 329-334	0.3
16	On the Influence of Solution and Ageing Treatments on the Microstructure of ZK40 Alloys Modified with Ca, Gd, Nd and Y Additions. <i>Praktische Metallographie/Practical Metallography</i> , <b>2018</b> , 55, 268-287	0.3
15	Influence of Microstructure Evolution During Twin-Roll Casting on the Properties of Magnesium Sheets. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 1677-1686	0.3
14	Role of SiC in Grain Refinement of Aluminum-Free Mg-Zn Alloys <b>2016</b> , 177-181	
13	Elevated Temperature and Varied Load Response of AS41 at Bolted Joint <b>2016</b> , 511-516	
12	Solid Solution Strengthening in Mg-Gd Alloys <b>2016</b> , 135-139	
11	Microstructural and Mechanical Aspects of Reinforcement Welds for Lightweight Components Produced by Friction Hydro Pillar Processing <b>2016</b> , 499-504	
10	Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture <b>2016</b> , 357-362	
9	Thermodynamic Description of Reactions between Mg and CaO <b>2016</b> , 67-72	

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