

Norbert Hort

List of Publications by Year in descending order

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264
papers

11,408
citations

50276

46
h-index

34986

98
g-index

302
all docs

302
docs citations

302
times ranked

5711
citing authors

#	ARTICLE	IF	CITATIONS
1	Degradable biomaterials based on magnesium corrosion. <i>Current Opinion in Solid State and Materials Science</i> , 2008, 12, 63-72.	11.5	1,537
2	Biodegradable magnesium-hydroxyapatite metal matrix composites. <i>Biomaterials</i> , 2007, 28, 2163-2174.	11.4	570
3	Progress and Challenge for Magnesium Alloys as Biomaterials. <i>Advanced Engineering Materials</i> , 2008, 10, B3.	3.5	564
4	Magnesium alloys as implant materials - Principles of property design for Mg-RE alloys†. <i>Acta Biomaterialia</i> , 2010, 6, 1714-1725.	8.3	503
5	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, 1834-1842.	8.3	496
6	Recent research and developments on wrought magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2017, 5, 239-253.	11.9	472
7	A Critical Review of the Stress Corrosion Cracking (SCC) of Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2005, 7, 659-693.	3.5	386
8	Fast escape of hydrogen from gas cavities around corroding magnesium implants. <i>Acta Biomaterialia</i> , 2013, 9, 8714-8721.	8.3	237
9	Intermetallics in Magnesium Alloys. <i>Advanced Engineering Materials</i> , 2006, 8, 235-240.	3.5	204
10	Chemical surface alteration of biodegradable magnesium exposed to corrosion media. <i>Acta Biomaterialia</i> , 2011, 7, 2704-2715.	8.3	174
11	Preparation and properties of high purity Mg-Y biomaterials. <i>Biomaterials</i> , 2010, 31, 398-403.	11.4	170
12	Corrosion behaviour of a nominally high purity Mg ingot produced by permanent mould direct chill casting. <i>Corrosion Science</i> , 2012, 61, 185-207.	6.6	158
13	Current development of creep-resistant magnesium cast alloys: A review. <i>Materials and Design</i> , 2018, 155, 422-442.	7.0	151
14	Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays†. <i>Acta Biomaterialia</i> , 2010, 6, 1813-1823.	8.3	150
15	Microstructural Investigations of the Mg-Sn-xCa System. <i>Advanced Engineering Materials</i> , 2006, 8, 359-364.	3.5	125
16	Investigations on microstructures, mechanical and corrosion properties of Mg-Gd-Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 595, 224-234.	5.6	120
17	Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Microstructure, Tensile Properties, and Creep Resistance. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 3543-3554.	2.2	116
18	Improved cytotoxicity testing of magnesium materials. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 830-834.	3.5	108

#	ARTICLE	IF	CITATIONS
19	Fabrication of a high strength Mg ¹¹ Gd ^{4.5} Y ¹ Nd ^{1.5} Zn ^{0.5} Zr (wt%) alloy by thermomechanical treatments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 622, 121-130.	5.6	97
20	Microstructure, mechanical and corrosion properties of Mg ¹⁰ Dy ¹ Gd ¹ Zr alloys for medical applications. <i>Acta Biomaterialia</i> , 2013, 9, 8499-8508.	8.3	92
21	Element distribution in the corrosion layer and cytotoxicity of alloy Mg ¹⁰ Dy during in vitro biodegradation. <i>Acta Biomaterialia</i> , 2013, 9, 8475-8487.	8.3	87
22	Mechanical and corrosion properties of binary Mg ¹⁰ Dy alloys for medical applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1827-1834.	3.5	86
23	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg ¹ Sr alloy. <i>Acta Biomaterialia</i> , 2016, 29, 455-467.	8.3	85
24	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.	3.5	83
25	Hot tearing susceptibility of binary Mg ¹ Y alloy castings. <i>Materials & Design</i> , 2013, 47, 90-100.	5.1	76
26	Intramedullary Mg ₂ Ag nails augment callus formation during fracture healing in mice. <i>Acta Biomaterialia</i> , 2016, 36, 350-360.	8.3	75
27	Magnesium Permanent Mold Castings Optimization. <i>Materials Science Forum</i> , 0, 690, 65-68.	0.3	74
28	Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 1-7.	11.9	74
29	Mechanism of grain refinement of Mg ¹ Al alloys by SiC inoculation. <i>Scripta Materialia</i> , 2011, 64, 793-796.	5.2	72
30	In vitro mechanical and corrosion properties of biodegradable Mg-Ag alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 569-576.	1.5	72
31	Phase equilibria, thermodynamics and solidification microstructures of Mg ¹ Sn ¹ Ca alloys, Part 2: Prediction of phase formation in Mg-rich Mg ¹ Sn ¹ Ca cast alloys. <i>Intermetallics</i> , 2008, 16, 316-321.	3.9	68
32	Calculation of Schmid factor in Mg alloys: Influence of stress state. <i>Scripta Materialia</i> , 2019, 171, 31-35.	5.2	68
33	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.	3.5	67
34	Corrosion behavior of Mg ¹ Gd ¹ Zn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 245-256.	11.9	67
35	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.	10.7	66
36	Effects of corrosion environment and proteins on magnesium corrosion. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 335-339.	1.4	63

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37	Optimum parameters and rate-controlling mechanisms for hot working of extruded Mg ³ Sn ¹ Ca alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 502, 25-31.	5.6	62
38	Microstructure and corrosion behavior of Mg-Sn-Ca alloys after extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 40-44.	4.2	62
39	Microstructural evolution and mechanical properties of Mg ¹¹ Gd ^{4.5} Y ¹ Nd ^{1.5} Zn ^{0.5} Zr alloy prepared via pre-ageing and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 624, 23-31.	5.6	62
40	Influence of ageing treatment on microstructure, mechanical and bio-corrosion properties of Mg ¹ Dy alloys. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 13, 36-44.	3.1	59
41	Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. <i>Corrosion Science</i> , 2012, 65, 145-151.	6.6	58
42	Hot working parameters and mechanisms in as-cast Mg ³ Sn ¹ Ca alloy. <i>Materials Letters</i> , 2008, 62, 4207-4209.	2.6	57
43	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.	5.6	56
44	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.	2.2	53
45	Influence of composition on hot tearing in binary Mg ¹ Zn alloys. <i>International Journal of Cast Metals Research</i> , 2011, 24, 170-176.	1.0	52
46	Measurement and calculation of the viscosity of metals—a review of the current status and developing trends. <i>Measurement Science and Technology</i> , 2014, 25, 062001.	2.6	52
47	Effects of Gd solutes on hardness and yield strength of Mg alloys. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 724-730.	4.4	51
48	Hot deformation behavior of Mg ² Sn ² 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.	5.6	48
49	Thermodynamic assessment and experimental study of Mg ¹ Gd alloys. <i>Journal of Alloys and Compounds</i> , 2013, 581, 166-177.	5.5	48
50	Microstructures and mechanical properties of a hot-extruded Mg ⁸ Gd ³ Yb ^{1.2} Zn ^{0.5} Zr (wt%) alloy. <i>Journal of Alloys and Compounds</i> , 2019, 776, 666-678.	5.5	48
51	Hot tearing mechanisms of B206 aluminum-copper alloy. <i>Materials & Design</i> , 2014, 64, 44-55.	5.1	47
52	Microstructures and mechanical properties of pure Mg processed by rotary swaging. <i>Materials & Design</i> , 2014, 63, 83-88.	5.1	47
53	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.	5.6	47
54	Comparison of different in vitro tests for biocompatibility screening of Mg alloys. <i>Acta Biomaterialia</i> , 2013, 9, 8740-8745.	8.3	46

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55	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.	3.1	46
56	Hot workability characteristics of cast and homogenized Mg-3Sn-1Ca alloy. <i>Journal of Materials Processing Technology</i> , 2008, 201, 359-363.	6.3	45
57	Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary Mg-Al alloys. <i>Journal of Alloys and Compounds</i> , 2015, 648, 759-770.	5.5	45
58	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.	3.6	44
59	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.	5.5	43
60	Effect of Heat Treatment on the Microstructure and Creep Behavior of Mg-Sn-Ca Alloys. <i>Materials Science Forum</i> , 0, 546-549, 69-72.	0.3	42
61	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.	5.6	42
62	Experimental and numerical analysis of hot tearing susceptibility for Mg-Y alloys. <i>Journal of Materials Science</i> , 2014, 49, 353-362.	3.7	42
63	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, 1-14.	4.0	42
64	Blood triggered corrosion of magnesium alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1761-1766.	3.5	41
65	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.	2.2	41
66	Investigations in the Magnesium-Tin System. <i>Materials Science Forum</i> , 2005, 488-489, 135-138.	0.3	40
67	Hot tearing behaviour of binary Mg-1Al alloy using a contraction force measuring method. <i>International Journal of Cast Metals Research</i> , 2009, 22, 331-334.	1.0	40
68	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.	5.6	39
69	Effect of Zn addition on hot tearing behaviour of Mg-0.5Ca-xZn alloys. <i>Materials and Design</i> , 2015, 87, 157-170.	7.0	39
70	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , 2021, 121, 695-712.	8.3	39
71	The effect of Y addition on recrystallization and mechanical properties of Mg-6Zn-xY-0.5Ce-0.4Zr alloys. <i>Vacuum</i> , 2018, 155, 445-455.	3.5	39
72	Evolution of microstructure and hardness of AE42 alloy after heat treatments. <i>Journal of Alloys and Compounds</i> , 2008, 463, 238-245.	5.5	38

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73	Quantitative Determination on Hot Tearing in Mg-Al Binary Alloys. Materials Science Forum, 0, 618-619, 533-540.	0.3	38
74	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. Acta Biomaterialia, 2020, 116, 415-425.	8.3	38
75	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. Journal of Magnesium and Alloys, 2016, 4, 173-180.	11.9	37
76	Microstructure and degradation performance of biodegradable Mg-Si-Sr implant alloys. Materials Science and Engineering C, 2017, 71, 25-34.	7.3	37
77	Microstructure and mechanical properties of as-cast Mg-Sn-Ca alloys and effect of alloying elements. Transactions of Nonferrous Metals Society of China, 2013, 23, 3604-3610.	4.2	36
78	Study of hot forging behavior of as-cast Mg-3Al-1Zn-2Ca alloy towards optimization of its hot workability. Materials & Design, 2014, 57, 697-704.	5.1	34
79	In situ synchrotron diffraction of the solidification of Mg ₄ Y ₃ Nd. Materials Letters, 2013, 102-103, 62-64.	2.6	33
80	Thermal behavior of short fiber reinforced AlSi ₁₂ CuMgNi piston alloys. Composites Part A: Applied Science and Manufacturing, 2004, 35, 249-263.	7.6	32
81	Creep behavior of AE42 based hybrid composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 460-461, 268-276.	5.6	32
82	Formation mechanism of the abnormal texture during extrusion in Mg-Y-Sm-Zn-Zr alloy. Journal of Alloys and Compounds, 2020, 821, 153477.	5.5	32
83	Influence of Ce addition on microstructure and mechanical properties of high pressure die cast AM50 magnesium alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 66-72.	4.2	31
84	As cast microstructures on the mechanical and corrosion behaviour of ZK40 modified with Gd and Nd additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 682, 238-247.	5.6	31
85	Corrosion of experimental magnesium alloys in blood and PBS: A gravimetric and microscopic evaluation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1797-1801.	3.5	30
86	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 2108-2118.	2.2	30
87	Microstructure and mechanical properties of large-scale Mg-Gd-Y-Zn-Mn alloys prepared through semi-continuous casting. Journal of Materials Science and Technology, 2020, 52, 72-82.	10.7	30
88	Hot tearing characteristics of Mg-2Ca-xZn alloys. Journal of Materials Science, 2016, 51, 2687-2704.	3.7	28
89	Influence of Dy in solid solution on the degradation behavior of binary Mg-Dy alloys in cell culture medium. Materials Science and Engineering C, 2017, 75, 1351-1358.	7.3	28
90	Abnormal extrusion texture and reversed yield asymmetry in a Mg-Y-Sm-Zn-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 426-430.	5.6	27

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91	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. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1167-1176.	2.2	26
92	Compressive strength and hot deformation behavior of TX32 magnesium alloy with 0.4% Al and 0.4% Si additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 6964-6970.	5.6	26
93	CaO dissolution during melting and solidification of a Mg-10 wt.% CaO alloy detected with in situ synchrotron radiation diffraction. Journal of Alloys and Compounds, 2015, 618, 64-66.	5.5	26
94	Analysis of instantaneous thermal expansion coefficient curve during thermal cycling in short fiber reinforced AlSi12CuMgNi composites. Composites Science and Technology, 2005, 65, 137-147.	7.8	25
95	Enhancement of Workability in AZ31 Alloy – Processing Maps: Part I, Cast Material. Advanced Engineering Materials, 2006, 8, 966-973.	3.5	25
96	Simulation of Stresses during Casting of Binary Magnesium-Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3196-3207.	2.2	25
97	Effect of calcium addition on the hot working behavior of as-cast AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 272-279.	5.6	25
98	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. Journal of Materials Science, 2013, 48, 5236-5246.	3.7	25
99	Dynamic tensile properties and microstructural evolution of extruded EW75 magnesium alloy at high strain rates. Journal of Magnesium and Alloys, 2020, 8, 849-859.	11.9	25
100	Understanding effects of microstructural inhomogeneity on creep response – New approaches to improve the creep resistance in magnesium alloys. Journal of Magnesium and Alloys, 2014, 2, 124-132.	11.9	24
101	Effects of extrusion ratio and annealing treatment on the mechanical properties and microstructure of a Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy. Journal of Materials Science, 2017, 52, 6670-6686.	3.7	24
102	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 6003-6017.	2.2	23
103	Microhardness and In Vitro Corrosion of Heat-Treated Mg-Y-Ag Biodegradable Alloy. Materials, 2017, 10, 55.	2.9	23
104	Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. Materials Chemistry and Physics, 2012, 136, 1081-1091.	4.0	22
105	High temperature mechanical behavior of an extruded Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 645, 213-224.	5.6	22
106	Influence of Precipitation Hardening in Mg-Y-Nd on Mechanical and Corrosion Properties. Jom, 2016, 68, 1183-1190.	1.9	22
107	Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Castability. Advanced Engineering Materials, 2016, 18, 953-962.	3.5	22
108	Effect of biaxial compressive stress state on the microstructure evolution and deformation compatibility of rolled sheet Mg alloy AZ31 at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139599.	5.6	22

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109	Corrosion Behaviour of Magnesium Alloys with RE Additions in Sodium Chloride Solutions. Materials Science Forum, 2003, 419-422, 867-872.	0.3	21
110	Polycrystalline and amorphous MgZnCa thin films. Corrosion Science, 2012, 63, 234-238.	6.6	21
111	Creep behavior of Mg ϵ -10Gd ϵ -xZn (x=2 and 6 wt%) alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 158-167.	5.6	21
112	New Development in Magnesium Technology for Light Weight Structures in Transportation Industries. Materials Science Forum, 2003, 426-432, 153-160.	0.3	20
113	Investigations on thermal fatigue of aluminum- and magnesium-alloy based composites. International Journal of Fatigue, 2006, 28, 1399-1405.	5.7	20
114	High Temperature Deformation Behaviour of a New Magnesium Alloy. Key Engineering Materials, 2007, 340-341, 89-94.	0.4	19
115	Three-dimensional microstructural analysis of Mg ϵ -Al ϵ -Zn alloys by synchrotron-radiation-based microtomography. Scripta Materialia, 2008, 58, 453-456.	5.2	19
116	High ductile as-cast Mg ϵ -RE based alloys at room temperature. Materials Letters, 2012, 83, 209-212.	2.6	19
117	Bulk and local textures of pure magnesium processed by rotary swaging. Journal of Magnesium and Alloys, 2013, 1, 341-345.	11.9	19
118	The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary Mg ϵ -RE Alloys. Advanced Engineering Materials, 2018, 20, 1800271.	3.5	19
119	Utilizing Synchrotron Radiation for the Characterization of Biodegradable Magnesium Alloys ϵ From Alloy Development to the Application as Implant Material. Advanced Engineering Materials, 2021, 23, 2100197.	3.5	19
120	Microstructural investigations of interfaces in short fiber reinforced AlSi12CuMgNi composites. Acta Materialia, 2005, 53, 3913-3923.	7.9	18
121	Hot Deformation Mechanisms in AZ31 Magnesium Alloy Extruded at Different Temperatures: Impact of Texture. Metals, 2012, 2, 292-312.	2.3	18
122	Review on Hot Working Behavior and Strength of Calcium ϵ -Containing Magnesium Alloys. Advanced Engineering Materials, 2018, 20, 1701102.	3.5	18
123	Identification of unexpected hydrides in Mg ϵ -20 ϵ ...wt% Dy alloy by high-brilliance synchrotron radiation. Journal of Applied Crystallography, 2012, 45, 17-21.	4.5	17
124	Effects of Sn segregation and precipitates on creep response of Mg ϵ -Sn alloys. Fatigue and Fracture of Engineering Materials and Structures, 2013, 36, 308-315.	3.4	16
125	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. Philosophical Magazine, 2013, 93, 4364-4377.	1.6	16
126	Study of the Solidification of AS Alloys Combining ϵ In Situ ϵ ; Synchrotron Diffraction and Differential Scanning Calorimetry. Materials Science Forum, 0, 765, 286-290.	0.3	16

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127	Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX32â€“0.4Al magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 606, 11-23.	5.6	16
128	Microstructure evolution of Mgâ€“11Gdâ€“4.5Yâ€“1Ndâ€“1.5Znâ€“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.	5.6	16
129	Effect of Microstructural Inhomogeneity on Creep Response of Mg-Sn Alloys. <i>Key Engineering Materials</i> , 0, 345-346, 561-564.	0.4	15
130	Status of the Development of Creep Resistant Magnesium Materials for Automotive Applications. <i>Materials Science Forum</i> , 0, 638-642, 73-80.	0.3	15
131	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.	3.5	14
132	Nucleation mechanism of Mg ₁₇ Al ₁₂ -precipitates in binary Mgâ€“7wt.% Al alloy. <i>Journal of Alloys and Compounds</i> , 2013, 557, 73-76.	5.5	14
133	Properties and processing of magnesium-tin-calcium alloys. <i>Metallic Materials</i> , 2011, 49, 163-177.	0.3	14
134	Histological Comparison of New Biodegradable Magnesium-Based Implants for Maxillofacial Applications. <i>Journal of Maxillofacial and Oral Surgery</i> , 2015, 14, 637-645.	1.4	13
135	Corrosion behaviour of as-cast ZK40 with CaO and Y additions. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 427-439.	4.2	13
136	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.	5.6	13
137	Cytotoxicity of the Ga-containing coatings on biodegradable magnesium alloys. <i>Surface Innovations</i> , 2015, 3, 10-19.	2.3	12
138	Precipitation Hardening on Mechanical and Corrosion Properties of Extruded Mg ₁₀ Gd Modified with Nd and La. <i>Metals</i> , 2018, 8, 640.	2.3	12
139	Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. <i>Materials Science Forum</i> , 0, 765, 306-310.	0.3	11
140	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.	5.6	11
141	In situ synchrotron radiation diffraction investigation of the compression behaviour at 350Â°C of ZK40 alloys with addition of CaO and Y. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 664, 2-9.	5.6	11
142	Microstructure and mechanical characterization of cast Mg-Ca-Si alloys. <i>Journal of Alloys and Compounds</i> , 2017, 694, 767-776.	5.5	11
143	In vivo degradability and biocompatibility of a rheo-formed Mgâ€“Znâ€“Sr alloy for ureteral implantation. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1631-1639.	11.9	11
144	Recycling of magnesium drive train components. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 148-154.	0.9	10

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145	Magnesium (Mg) corrosion: a challenging concept for degradable implants. , 2011, , 403-425.		10
146	Magnesium Melt Protection. Materials Science Forum, 0, 828-829, 78-81.	0.3	10
147	Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5498-5515.	2.2	10
148	Characterization of an Extruded Mg-Dy-Nd Alloy during Stress Corrosion with C-Ring Tests. Metals, 2020, 10, 584.	2.3	10
149	Mechanical behaviors of extruded Mg alloys with high Gd and Nd content. Progress in Natural Science: Materials International, 2021, 31, 591-598.	4.4	10
150	Effects of segregation of primary alloying elements on the creep response in magnesium alloys. Scripta Materialia, 2008, 58, 894-897.	5.2	9
151	Effect of Minor Additions of Al and Si on the Mechanical Properties of Cast Mg-3Sn-2Ca Alloys in Low Temperature Range. Materials Science Forum, 2010, 654-656, 635-638.	0.3	9
152	Effect of thermal and mechanical treatments on the hot working response of Mg-3Sn-1Ca alloy. International Journal of Materials Research, 2010, 101, 300-306.	0.3	9
153	Development of High Performance Single-Phase Solid Solution Magnesium Alloy at Low Temperature. Advanced Engineering Materials, 2012, 14, 178-184.	3.5	9
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