# Norbert Hort

## List of Publications by Citations



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|---|---|---|---|
| 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 | Degradable biomaterials based on magnesium corrosion. *Current Opinion in Solid State and Materials Science*, **2008**, 12, 63-72 | 12 | 1291 |
| 297 | Biodegradable magnesium-hydroxyapatite metal matrix composites. *Biomaterials*, **2007**, 28, 2163-74 | 15.6 | 482 |
| 296 | Progress and Challenge for Magnesium Alloys as Biomaterials. *Advanced Engineering Materials*, **2008**, 10, B3-B14 | 3.5 | 479 |
| 295 | Magnesium alloys as implant materials--principles of property design for Mg-RE alloys. *Acta Biomaterialia*, **2010**, 6, 1714-25 | 10.8 | 411 |
| 294 | Evaluation of short-term effects of rare earth and other elements used in magnesium alloys on primary cells and cell lines. *Acta Biomaterialia*, **2010**, 6, 1834-42 | 10.8 | 409 |
| 293 | A Critical Review of the Stress Corrosion Cracking (SCC) of Magnesium Alloys. *Advanced Engineering Materials*, **2005**, 7, 659-693 | 3.5 | 329 |
| 292 | Recent research and developments on wrought magnesium alloys. *Journal of Magnesium and Alloys*, **2017**, 5, 239-253 | 8.8 | 301 |
| 291 | Fast escape of hydrogen from gas cavities around corroding magnesium implants. *Acta Biomaterialia*, **2013**, 9, 8714-21 | 10.8 | 184 |
| 290 | Intermetallics in Magnesium Alloys. *Advanced Engineering Materials*, **2006**, 8, 235-240 | 3.5 | 180 |
| 289 | Chemical surface alteration of biodegradable magnesium exposed to corrosion media. *Acta Biomaterialia*, **2011**, 7, 2704-15 | 10.8 | 151 |
| 288 | Preparation and properties of high purity Mg-Y biomaterials. *Biomaterials*, **2010**, 31, 398-403 | 15.6 | 149 |
| 287 | Interference of magnesium corrosion with tetrazolium-based cytotoxicity assays. *Acta Biomaterialia* , **2010**, 6, 1813-23 | 10.8 | 134 |
| 286 | Corrosion behaviour of a nominally high purity Mg ingot produced by permanent mould direct chill casting. *Corrosion Science*, **2012**, 61, 185-207 | 6.8 | 129 |
| 285 | 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 |
| 284 | Investigations on microstructures, mechanical and corrosion properties of Mg□d□n alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 595, 224-234 | 5.3 | 84 |
| 283 | Current development of creep-resistant magnesium cast alloys: A review. *Materials and Design*, **2018**, 155, 422-442 | 8.1 | 82 |
| 282 | Improved cytotoxicity testing of magnesium materials. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 830-834 | 3.1 | 79 |

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|---|---|---|---|
| 281 | Fabrication of a high strength Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr (wt%) alloy by thermomechanical treatments. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 622, 121-130 | 5.3 | 78 |
| 280 | Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation. *Acta Biomaterialia*, **2013**, 9, 8475-87 | 10.8 | 72 |
| 279 | An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg-1Sr alloy. *Acta Biomaterialia*, **2016**, 29, 455-467 | 10.8 | 68 |
| 278 | Mechanical and corrosion properties of binary Mg-Dy alloys for medical applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1827-1834 | 3.1 | 65 |
| 277 | XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, and Simulated Body Fluid. *Advanced Engineering Materials*, **2010**, 12, B699-B704 | 3.5 | 65 |
| 276 | Microstructure, mechanical and corrosion properties of Mg-Dy-Gd-Zr alloys for medical applications. *Acta Biomaterialia*, **2013**, 9, 8499-508 | 10.8 | 64 |
| 275 | Hot tearing susceptibility of binary Mg-Y alloy castings. *Materials & Design*, **2013**, 47, 90-100 | | 63 |
| 274 | Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. *Journal of Magnesium and Alloys*, **2014**, 2, 1-7 | 8.8 | 61 |
| 273 | 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. *Intermetallics*, **2008**, 16, 316-321 | 3.5 | 61 |
| 272 | Mechanism of grain refinement of Mg-Al alloys by SiC inoculation. *Scripta Materialia*, **2011**, 64, 793-796 | 5.6 | 60 |
| 271 | Magnesium Permanent Mold Castings Optimization. *Materials Science Forum*, **2011**, 690, 65-68 | 0.4 | 59 |
| 270 | Microstructure and corrosion behavior of Mg-Sn-Ca alloys after extrusion. *Transactions of Nonferrous Metals Society of China*, **2009**, 19, 40-44 | 3.3 | 57 |
| 269 | Microstructural evolution and mechanical properties of Mg-11Gd-4.5Y-1Nd-1.5Zn-0.5Zr alloy prepared via pre-ageing and hot extrusion. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 624, 23-31 | 5.3 | 55 |
| 268 | Effects of corrosion environment and proteins on magnesium corrosion. *Corrosion Engineering Science and Technology*, **2012**, 47, 335-339 | 1.7 | 55 |
| 267 | Hot working parameters and mechanisms in as-cast Mg-3Sn-1Ca alloy. *Materials Letters*, **2008**, 62, 4207-4209 | 3.3 | 55 |
| 266 | Optimum parameters and rate-controlling mechanisms for hot working of extruded Mg-3Sn-1Ca alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 502, 25-31 | 5.3 | 52 |
| 265 | Intramedullary Mg2Ag nails augment callus formation during fracture healing in mice. *Acta Biomaterialia*, **2016**, 36, 350-60 | 10.8 | 52 |
| 264 | In vitro mechanical and corrosion properties of biodegradable Mg-Ag alloys. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2014**, 65, 569-576 | 1.6 | 51 |

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|---|---|---|---|
| 263 | Corrosion behavior of Mg□d□n based alloys in aqueous NaCl solution. *Journal of Magnesium and Alloys*, **2014**, 2, 245-256 | 8.8 | 51 |
| 262 | Reprint of: Improved cytotoxicity testing of magnesium materials. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1773-1777 | 3.1 | 49 |
| 261 | 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 | 4.1 | 48 |
| 260 | Influence of cerium additions on the corrosion behaviour of high pressure die cast AM50 alloy. *Corrosion Science*, **2012**, 65, 145-151 | 6.8 | 47 |
| 259 | Investigation of minimum creep rates and stress exponents calculated from tensile and compressive creep data of magnesium alloy AE42. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2009**, 510-511, 382-386 | 5.3 | 44 |
| 258 | Influence of composition on hot tearing in binary Mg□n alloys. *International Journal of Cast Metals Research*, **2011**, 24, 170-176 | 1 | 44 |
| 257 | Effects of samarium content on microstructure and mechanical properties of Mg□.5Zn□.5Zr alloy. *Journal of Materials Science and Technology*, **2019**, 35, 1368-1377 | 9.1 | 42 |
| 256 | Hot workability characteristics of cast and homogenized Mg□Sn□Ca alloy. *Journal of Materials Processing Technology*, **2008**, 201, 359-363 | 5.3 | 42 |
| 255 | Hot deformation behavior of Mg□Sn□Ca alloy in as-cast condition and after homogenization. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2012**, 552, 444-450 | 5.3 | 41 |
| 254 | Effect of Heat Treatment on the Microstructure and Creep Behavior of Mg-Sn-Ca Alloys. *Materials Science Forum*, **2007**, 546-549, 69-72 | 0.4 | 41 |
| 253 | Thermodynamic assessment and experimental study of Mg□d alloys. *Journal of Alloys and Compounds*, **2013**, 581, 166-177 | 5.7 | 39 |
| 252 | Blood triggered corrosion of magnesium alloys. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1761-1766 | 3.1 | 38 |
| 251 | Investigations in the Magnesium-Tin System. *Materials Science Forum*, **2005**, 488-489, 135-138 | 0.4 | 38 |
| 250 | Comparison of different in vitro tests for biocompatibility screening of Mg alloys. *Acta Biomaterialia*, **2013**, 9, 8740-5 | 10.8 | 37 |
| 249 | Ion release from magnesium materials in physiological solutions under different oxygen tensions. *Journal of Materials Science: Materials in Medicine*, **2012**, 23, 9-24 | 4.5 | 36 |
| 248 | Experimental and numerical analysis of hot tearing susceptibility for Mg□ alloys. *Journal of Materials Science*, **2014**, 49, 353-362 | 4.3 | 35 |
| 247 | Evolution of microstructure and hardness of AE42 alloy after heat treatments. *Journal of Alloys and Compounds*, **2008**, 463, 238-245 | 5.7 | 35 |
| 246 | Tensile and compressive creep behaviour of Al2O3 (Saffil□ ) short fiber reinforced magnesium alloy AE42. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2005**, 410-411, 85-88 | 5.3 | 35 |

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|---|---|---|---|
| 245 | Unraveling Recrystallization Mechanisms Governing Texture Development from Rare-Earth Element Additions to Magnesium. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2018**, 49, 1809-1829 | 2.3 | 34 |
| 244 | Microstructures and mechanical properties of pure Mg processed by rotary swaging. *Materials & Design*, **2014**, 63, 83-88 | | 34 |
| 243 | Measurement and calculation of the viscosity of metals□ review of the current status and developing trends. *Measurement Science and Technology*, **2014**, 25, 062001 | 2 | 33 |
| 242 | Hot tearing mechanisms of B206 aluminum□opper alloy. *Materials & Design*, **2014**, 64, 44-55 | | 33 |
| 241 | Effect of yttrium addition on lattice parameter, Young's modulus and vacancy of magnesium. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2011**, 528, 2106-2109 | 5.3 | 33 |
| 240 | Effect of erbium modification on the microstructure, mechanical and corrosion characteristics of binary Mg□l alloys. *Journal of Alloys and Compounds*, **2015**, 648, 759-770 | 5.7 | 32 |
| 239 | Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2013**, 44, 2285-2298 | 2.3 | 32 |
| 238 | Hot tearing behaviour of binary Mg□1Al alloy using a contraction force measuring method. *International Journal of Cast Metals Research*, **2009**, 22, 331-334 | 1 | 32 |
| 237 | In situ synchrotron diffraction of the solidification of Mg4Y3Nd. *Materials Letters*, **2013**, 102-103, 62-64 | 3.3 | 31 |
| 236 | Developing a die casting magnesium alloy with excellent mechanical performance by controlling intermetallic phase. *Journal of Alloys and Compounds*, **2019**, 795, 436-445 | 5.7 | 30 |
| 235 | Mechanical properties and corrosion behavior of Mg-Gd-Ca-Zr alloys for medical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2015**, 47, 38-48 | 4.1 | 30 |
| 234 | Microstructure and mechanical properties of as-cast Mg□nC□a alloys and effect of alloying elements. *Transactions of Nonferrous Metals Society of China*, **2013**, 23, 3604-3610 | 3.3 | 30 |
| 233 | Influence of the Microstructure and Silver Content on Degradation, Cytocompatibility, and Antibacterial Properties of Magnesium-Silver Alloys In Vitro. *Oxidative Medicine and Cellular Longevity*, **2017**, 2017, 8091265 | 6.7 | 30 |
| 232 | Effect of Zn addition on hot tearing behaviour of Mg□.5Ca□Zn alloys. *Materials and Design*, **2015**, 87, 157-170 | 8.1 | 30 |
| 231 | Effects of Gd solutes on hardness and yield strength of Mg alloys. *Progress in Natural Science: Materials International*, **2018**, 28, 724-730 | 3.6 | 30 |
| 230 | Microstructures and mechanical properties of a hot-extruded Mg□Gd□Yb□.2Zn□.5Zr (wt%) alloy. *Journal of Alloys and Compounds*, **2019**, 776, 666-678 | 5.7 | 29 |
| 229 | Study of hot forging behavior of as-cast Mg□Al□Zn□Ca alloy towards optimization of its hot workability. *Materials & Design*, **2014**, 57, 697-704 | | 28 |
| 228 | Microstructure and degradation performance of biodegradable Mg-Si-Sr implant alloys. *Materials Science and Engineering C*, **2017**, 71, 25-34 | 8.3 | 28 |

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| 227 | Creep behavior of AE42 based hybrid composites. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2007**, 460-461, 268-276 | 5.3 | 28 |
| 226 | Quantitative Determination on Hot Tearing in Mg-Al Binary Alloys. *Materials Science Forum*, **2009**, 618-619, 533-540 | 0.4 | 27 |
| 225 | Thermal behavior of short fiber reinforced AlSi12CuMgNi piston alloys. *Composites Part A: Applied Science and Manufacturing*, **2004**, 35, 249-263 | 8.4 | 27 |
| 224 | Calculation of Schmid factor in Mg alloys: Influence of stress state. *Scripta Materialia*, **2019**, 171, 31-35 | 5.6 | 26 |
| 223 | 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 | 5.3 | 26 |
| 222 | 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 | 3.1 | 25 |
| 221 | The effect of Y addition on recrystallization and mechanical properties of Mg□Zn□Y□.5Ce□.4Zr alloys. *Vacuum*, **2018**, 155, 445-455 | 3.7 | 25 |
| 220 | Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. *Journal of Magnesium and Alloys*, **2016**, 4, 173-180 | 8.8 | 24 |
| 219 | Simulation of Stresses during Casting of Binary Magnesium-Aluminum Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2010**, 41, 3196-3207 | 2.3 | 24 |
| 218 | Hot tearing characteristics of Mg□Ca□Zn alloys. *Journal of Materials Science*, **2016**, 51, 2687-2704 | 4.3 | 23 |
| 217 | 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 | 2.3 | 23 |
| 216 | Enhancement of Workability in AZ31 Alloy □Processing Maps: Part I, Cast Material. *Advanced Engineering Materials*, **2006**, 8, 966-973 | 3.5 | 23 |
| 215 | Some studies on the thermal-expansion behavior of C-fiber, SiC p , and In-situ Mg2Si-reinforced AZ31 Mg alloy-based hybrid composites. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2004**, 35, 1167-1176 | 2.3 | 23 |
| 214 | 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 | 3.3 | 22 |
| 213 | 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 | 5.7 | 21 |
| 212 | 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 | 5.3 | 21 |
| 211 | Analysis of instantaneous thermal expansion coefficient curve during thermal cycling in short fiber reinforced AlSi12CuMgNi composites. *Composites Science and Technology*, **2005**, 65, 137-147 | 8.6 | 21 |
| 210 | 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 | 5.3 | 20 |

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| 209 | Polycrystalline and amorphous MgZnCa thin films. *Corrosion Science*, **2012**, 63, 234-238 | 6.8 | 20 |
| 208 | Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. *Journal of Materials Science*, **2013**, 48, 5236-5246 | 4.3 | 20 |
| 207 | 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 | 8.8 | 19 |
| 206 | Hot working mechanisms and texture development in Mg-3Sn-2Ca-0.4Al alloy. *Materials Chemistry and Physics*, **2012**, 136, 1081-1091 | 4.4 | 19 |
| 205 | High Temperature Deformation Behaviour of a New Magnesium Alloy. *Key Engineering Materials*, **2007**, 340-341, 89-94 | 0.4 | 19 |
| 204 | Achieving enhanced mechanical properties in Mg-Gd-Y-Zn-Mn alloy by altering dynamic recrystallization behavior via pre-ageing treatment. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2020**, 790, 139635 | 5.3 | 18 |
| 203 | Three-dimensional microstructural analysis of MgAlZn alloys by synchrotron-radiation-based microtomography. *Scripta Materialia*, **2008**, 58, 453-456 | 5.6 | 18 |
| 202 | New Development in Magnesium Technology for Light Weight Structures in Transportation Industries. *Materials Science Forum*, **2003**, 426-432, 153-160 | 0.4 | 18 |
| 201 | Hot Tearing Susceptibility of Mg-Ca Binary Alloys. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2015**, 46, 6003-6017 | 2.3 | 17 |
| 200 | Evaluation of Magnesium Die-Casting Alloys for Elevated Temperature Applications: Castability . *Advanced Engineering Materials*, **2016**, 18, 953-962 | 3.5 | 17 |
| 199 | Bulk and local textures of pure magnesium processed by rotary swaging. *Journal of Magnesium and Alloys*, **2013**, 1, 341-345 | 8.8 | 17 |
| 198 | Investigations on thermal fatigue of aluminum- and magnesium-alloy based composites. *International Journal of Fatigue*, **2006**, 28, 1399-1405 | 5 | 17 |
| 197 | Corrosion Behaviour of Magnesium Alloys with RE Additions in Sodium Chloride Solutions. *Materials Science Forum*, **2003**, 419-422, 867-872 | 0.4 | 17 |
| 196 | Microhardness and In Vitro Corrosion of Heat-Treated Mg-Y-Ag Biodegradable Alloy. *Materials*, **2017**, 10, | 3.5 | 16 |
| 195 | In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. *Acta Biomaterialia*, **2020**, 116, 415-425 | 10.8 | 16 |
| 194 | Creep behavior of Mg10GdZn (x=2 and 6 wt%) alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 649, 158-167 | 5.3 | 15 |
| 193 | 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 | 8.3 | 15 |
| 192 | Abnormal extrusion texture and reversed yield asymmetry in a Mg-Sm-Zn-Zr alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 760, 426-430 | 5.3 | 15 |

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| 191 | Hot Deformation Mechanisms in AZ31 Magnesium Alloy Extruded at Different Temperatures: Impact of Texture. *Metals*, **2012**, 2, 292-312 | 2.3 | 15 |
| 190 | Microstructural investigations of interfaces in short fiber reinforced AlSi12CuMgNi composites. *Acta Materialia*, **2005**, 53, 3913-3923 | 8.4 | 15 |
| 189 | Influence of Precipitation Hardening in Mg-Y-Nd on Mechanical and Corrosion Properties. *Jom*, **2016**, 68, 1183-1190 | 2.1 | 15 |
| 188 | Effects of extrusion ratio and annealing treatment on the mechanical properties and microstructure of a Mg□1Gd□4.5Y□1Nd□1.5Zn□0.5Zr (wt%) alloy. *Journal of Materials Science*, **2017**, 52, 6670-6686 | 4.3 | 14 |
| 187 | High temperature mechanical behavior of an extruded Mg□1Gd□4.5Y□1Nd□1.5Zn□0.5Zr (wt%) alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 645, 213-224 | 5.3 | 14 |
| 186 | Dynamic tensile properties and microstructural evolution of extruded EW75 magnesium alloy at high strain rates. *Journal of Magnesium and Alloys*, **2020**, 8, 849-859 | 8.8 | 14 |
| 185 | Microstructure evolution of Mg□1Gd□4.5Y□1Nd□1.5Zn□0.5Zr (wt%) alloy during deformation and its effect on strengthening. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2016**, 657, 259-268 | 5.3 | 14 |
| 184 | High ductile as-cast MgRE based alloys at room temperature. *Materials Letters*, **2012**, 83, 209-212 | 3.3 | 14 |
| 183 | Identification of unexpected hydrides in Mg□0 wt% Dy alloy by high-brilliance synchrotron radiation. *Journal of Applied Crystallography*, **2012**, 45, 17-21 | 3.8 | 14 |
| 182 | Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. *Philosophical Magazine*, **2013**, 93, 4364-4377 | 1.6 | 14 |
| 181 | Study of the Solidification of AS Alloys Combining In Situ Synchrotron Diffraction and Differential Scanning Calorimetry. *Materials Science Forum*, **2013**, 765, 286-290 | 0.4 | 14 |
| 180 | Status of the Development of Creep Resistant Magnesium Materials for Automotive Applications. *Materials Science Forum*, **2010**, 638-642, 73-80 | 0.4 | 14 |
| 179 | Effect of Microstructural Inhomogeneity on Creep Response of Mg-Sn Alloys. *Key Engineering Materials*, **2007**, 345-346, 561-564 | 0.4 | 14 |
| 178 | Properties and processing of magnesium-tin-calcium alloys. *Metallic Materials*, **2011**, 49, 163-177 | 1.3 | 14 |
| 177 | Effect of fetal calf serum on the corrosion behaviour of magnesium alloys. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2011**, 176, 1746-1755 | 3.1 | 13 |
| 176 | Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX320.4Al magnesium alloy. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2014**, 606, 11-23 | 5.3 | 12 |
| 175 | Effects of Sn segregation and precipitates on creep response of Mg-Sn alloys. *Fatigue and Fracture of Engineering Materials and Structures*, **2013**, 36, 308-315 | 3 | 12 |
| 174 | Review on Hot Working Behavior and Strength of Calcium-Containing Magnesium Alloys. *Advanced Engineering Materials*, **2018**, 20, 1701102 | 3.5 | 12 |

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| 173 | Investigations on Hot Tearing of Mg-Zn-(Al) Alloys **2011**, 125-130 | | 11 |
| 172 | Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. *Acta Biomaterialia*, **2021**, 121, 695-712 | 10.8 | 11 |
| 171 | In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 640, 129-136 | 5.3 | 10 |
| 170 | Histological Comparison of New Biodegradable Magnesium-Based Implants for Maxillofacial Applications. *Journal of Maxillofacial and Oral Surgery*, **2015**, 14, 637-645 | 0.9 | 10 |
| 169 | Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. *Materials Science Forum*, **2013**, 765, 306-310 | 0.4 | 10 |
| 168 | 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 |
| 167 | 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 | 5.3 | 9 |
| 166 | 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 | 9.1 | 9 |
| 165 | Nucleation mechanism of Mg17Al12-precipitates in binary Mg–7wt.% Al alloy. *Journal of Alloys and Compounds*, **2013**, 557, 73-76 | 5.7 | 9 |
| 164 | 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 | 0.4 | 9 |
| 163 | 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 | 0.5 | 9 |
| 162 | Microscopic deformation compatibility during biaxial tension in AZ31 Mg alloy rolled sheet at room temperature. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2019**, 756, 1-10 | 5.3 | 8 |
| 161 | Characterization of an Extruded Mg-Dy-Nd Alloy during Stress Corrosion with C-Ring Tests. *Metals*, **2020**, 10, 584 | 2.3 | 8 |
| 160 | Microstructure and mechanical characterization of cast Mg-Ca-Si alloys. *Journal of Alloys and Compounds*, **2017**, 694, 767-776 | 5.7 | 8 |
| 159 | High Temperature Strength and Hot Working Technology for As-Cast Mg–1Zn–1Ca (ZX11) Alloy. *Metals*, **2017**, 7, 405 | 2.3 | 8 |
| 158 | Development of High Performance Single-Phase Solid Solution Magnesium Alloy at Low Temperature. *Advanced Engineering Materials*, **2012**, 14, 178-184 | 3.5 | 8 |
| 157 | Numerical Determination of Heat Distribution and Castability Simulations of as Cast Mg–Al Alloys. *Advanced Engineering Materials*, **2009**, 11, 162-168 | 3.5 | 8 |
| 156 | Recycling of magnesium drive train components. *Science in China Series D: Earth Sciences*, **2009**, 52, 148-154 | | 8 |

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| 155 | Effects of segregation of primary alloying elements on the creep response in magnesium alloys. *Scripta Materialia*, **2008**, 58, 894-897 | 5.6 | 8 |
| 154 | Formation mechanism of the abnormal texture during extrusion in Mg-Y-Sm-Zn-Zr alloy. *Journal of Alloys and Compounds*, **2020**, 821, 153477 | 5.7 | 8 |
| 153 | In vivo degradation of binary magnesium alloys – a long-term study. *BioNanoMaterials*, **2016**, 17, | | 8 |
| 152 | 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 |
| 151 | High Strength Magnesium Alloys Through Precipitation Hardening and Micro Alloying: Considerations for Alloy Design. *Jom*, **2015**, 67, 2427-2432 | 2.1 | 7 |
| 150 | Corrosion behaviour of as-cast ZK40 with CaO and Y additions. *Transactions of Nonferrous Metals Society of China*, **2018**, 28, 427-439 | 3.3 | 7 |
| 149 | The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary MgRE Alloys. *Advanced Engineering Materials*, **2018**, 20, 1800271 | 3.5 | 7 |
| 148 | Precipitation Hardening on Mechanical and Corrosion Properties of Extruded Mg10Gd Modified with Nd and La. *Metals*, **2018**, 8, 640 | 2.3 | 7 |
| 147 | Effect of aluminum on microstructural evolution during hot deformation of TX32 magnesium alloy. *Journal of Materials Science*, **2014**, 49, 5885-5898 | 4.3 | 7 |
| 146 | Cytotoxicity of the Ga-containing coatings on biodegradable magnesium alloys. *Surface Innovations*, **2015**, 3, 10-19 | 1.9 | 7 |
| 145 | Magnesium Melt Protection. *Materials Science Forum*, **2015**, 828-829, 78-81 | 0.4 | 7 |
| 144 | Mechanical properties and corrosion behaviour of freestanding, precipitate-free magnesium WE43 thin films. *International Journal of Materials Research*, **2013**, 104, 286-292 | 0.5 | 7 |
| 143 | Compression Creep at 240°C of Extruded Magnesium Alloys Containing Gadolinium. *Materials Science Forum*, **2011**, 690, 270-273 | 0.4 | 7 |
| 142 | Powder Metallurgically Manufactured Metal Matrix Composites **2006**, 243-276 | | 7 |
| 141 | Mg Alloys: Challenges and Achievements in Controlling Performance, and Future Application Perspectives. *Minerals, Metals and Materials Series*, **2018**, 3-14 | 0.3 | 6 |
| 140 | Hot Deformation Behavior and Processing Map of Mg-3Sn-2Ca-0.4Al-0.4Zn Alloy. *Metals*, **2018**, 8, 216 | 2.3 | 6 |
| 139 | Development of a magnesium secondary alloy system for mixed magnesium post-consumer scrap. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2013**, 576, 222-230 | 5.3 | 6 |
| 138 | High Temperature Deformation and Microstructural Features of TXA321 Magnesium Alloy: Correlations with Processing Map. *Advanced Engineering Materials*, **2013**, 15, 761-766 | 3.5 | 6 |

| | | | |
|---|---|---|---|
| 137 | Identification and description of intermetallic compounds in Mg□Si□r cast and heat-treated alloys. *Journal of Alloys and Compounds*, **2016**, 669, 123-133 | 5.7 | 5 |
| 136 | Twinning Assisted Crack Propagation of Magnesium-Rare Earth Casting and Wrought Alloys under Bending. *Materials Science Forum*, **2015**, 828-829, 311-317 | 0.4 | 5 |
| 135 | Investigation of biodegradation behaviour of an Mg-1Ca alloy influenced by heat treatment and applying plasma-chemical oxidation layers. *Materials and Corrosion - Werkstoffe Und Korrosion*, **2013**, 64, 578-584 | 1.6 | 5 |
| 134 | Mechanism of Dynamic Recrystallization and Evolution of Texture in the Hot Working Domains of the Processing Map for Mg-4Al-2Ba-2Ca Alloy. *Metals*, **2017**, 7, 539 | 2.3 | 5 |
| 133 | Tailoring properties of cast Mg10Gd by alloying Nd and heat treatment. *Emerging Materials Research*, **2013**, 2, 229-238 | 1.4 | 5 |
| 132 | Magnesium: An essential nutrient for a good biomaterial. *Jom*, **2011**, 63, 99-99 | 2.1 | 5 |
| 131 | Corrosion Behavior of As-Cast Binary Mg-Dy Alloys. *Materials Science Forum*, **2011**, 690, 417-421 | 0.4 | 5 |
| 130 | Micro-Strain Induced by Thermal Cycling in Short Fiber Reinforced AlSi12CuMgNi Piston Alloy and AE42 Magnesium Alloy. *Advanced Engineering Materials*, **2004**, 6, 883-888 | 3.5 | 5 |
| 129 | Utilizing Synchrotron Radiation for the Characterization of Biodegradable Magnesium Alloys□rom Alloy Development to the Application as Implant Material. *Advanced Engineering Materials*, **2021**, 23, 2100197 | 3.5 | 5 |
| 128 | Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications. *Materials Science Forum*, **2015**, 828-829, 165-171 | 0.4 | 4 |
| 127 | Magnesium-Based Metal Matrix Nanocomposites□rocessing and Properties. *Minerals, Metals and Materials Series*, **2018**, 679-691 | 0.3 | 4 |
| 126 | Forging of cast Mg-3Sn-2Ca-0.4Al-0.4Si magnesium alloy using processing map. *Journal of Mechanical Science and Technology*, **2016**, 30, 2699-2705 | 1.6 | 4 |
| 125 | Enhancement of Strength and Hot Workability of AZX312 Magnesium Alloy by Disintegrated Melt Deposition (DMD) Processing in Contrast to Permanent Mold Casting. *Metals*, **2018**, 8, 437 | 2.3 | 4 |
| 124 | Influence of Torsion on Precipitation and Hardening Effects during Aging of an Extruded AZ91 Alloy. *Journal of Materials Engineering and Performance*, **2019**, 28, 4403-4414 | 1.6 | 4 |
| 123 | A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy. *Jom*, **2014**, 66, 322-328 | 2.1 | 4 |
| 122 | Microstructure, Mechanical and Corrosion Properties of Mg-Gd-Zn Alloys. *Materials Science Forum*, **2013**, 765, 28-32 | 0.4 | 4 |
| 121 | Effect of Grain Size and Structure, Solid Solution Elements, Precipitates and Twinning on Nanohardness of Mg-RE Alloys. *Materials Science Forum*, **2013**, 765, 491-495 | 0.4 | 4 |
| 120 | Magnesium (Mg) corrosion: a challenging concept for degradable implants **2011**, 403-425 | | 4 |

| | | | |
|---|---|---|---|
| 119 | Mechanical Behaviour and Corrosion Performance of Thin Film Magnesium WE Alloys. *Materials Science Forum*, **2011**, 690, 286-289 | 0.4 | 4 |
| 118 | Cyclic Deformation of Newly Developed Magnesium Cast Alloys in Corrosive Environment. *Materials Science Forum*, **2011**, 690, 495-498 | 0.4 | 4 |
| 117 | Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy. *Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science*, **2020**, 51, 5498-5515 | 2.3 | 4 |
| 116 | Microstructure and mechanical properties of Mg-3Sn-1Ca reinforced with AlN nano-particles. *Journal of Magnesium and Alloys*, **2021**, | 8.8 | 4 |
| 115 | Twin-Roll Casting after Intensive Melt Shearing and Subsequent Rolling of an AM30 Magnesium Alloy with Addition of CaO and SiC. *Materials Science Forum*, **2015**, 828-829, 35-40 | 0.4 | 3 |
| 114 | Optimization of Thermo-Mechanical Processing for Forging of Newly Developed Creep-Resistant Magnesium Alloy ABaX633. *Metals*, **2017**, 7, 513 | 2.3 | 3 |
| 113 | Mechanical and Corrosive Properties of Two Magnesium Wires: Mg4Gd and Mg6Ag **2015**, 393-398 | | 3 |
| 112 | Investigation of hot workability behavior of as-cast Mg–5Sn–2Ca (TX52) magnesium alloy through processing map. *Production and Manufacturing Research*, **2014**, 2, 241-252 | 3.3 | 3 |
| 111 | Influence of Nd in Extruded Mg10Gd Base Alloys on Fatigue Strength. *Materials Science Forum*, **2014**, 783-786, 419-424 | 0.4 | 3 |
| 110 | The interaction of precipitation and deformation in a binary Mg–Ca alloy at elevated temperatures. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing* , **2014**, 609, 116-124 | 5.3 | 3 |
| 109 | Hot Tearing Susceptibility of Magnesium–Gadolinium Binary Alloys. *Transactions of the Indian Institute of Metals*, **2012**, 65, 701-706 | 1.2 | 3 |
| 108 | Influence of Processing Route on the Properties of Magnesium Alloys. *Solid State Phenomena*, **2008** , 141-143, 43-48 | 0.4 | 3 |
| 107 | Mechanical Properties and Corrosion Performance of AZ-Mg Alloy Modified with Ca and Sr. *SAE International Journal of Materials and Manufacturing*, **2008**, 1, 103-110 | 1 | 3 |
| 106 | Microstructural Development in Tension and Compression Creep of Magnesium Alloy AE42. *Materials Science Forum*, **2005**, 482, 271-274 | 0.4 | 3 |
| 105 | Phase Formation during Solidification of Mg-Nd-Zn Alloys: An In Situ Synchrotron Radiation Diffraction Study. *Materials*, **2018**, 11, | 3.5 | 3 |
| 104 | Mechanical behaviors of extruded Mg alloys with high Gd and Nd content. *Progress in Natural Science: Materials International*, **2021**, 31, 591-598 | 3.6 | 3 |
| 103 | 3D Microstructural Evolution on Solidifying Mg–Nd–Zn Alloy Observed via In Situ Synchrotron Tomography. *Minerals, Metals and Materials Series*, **2017**, 605-612 | 0.3 | 2 |
| 102 | Unexpected Expansion Behavior of Mg-Al Alloys During Isothermal Ageing. *Jom*, **2019**, 71, 2906-2912 | 2.1 | 2 |

| | | | |
|---|---|---|---|
| 101 | Effect of Alloying with Rare-Earth Metals on the Degradation of Magnesium Alloys Studied Using a Combination of Isothermal Calorimetry and Pressure Measurements. *Minerals, Metals and Materials Series*, **2019**, 121-126 | 0.3 | 2 |
| 100 | Strengthening and ductilizing of magnesium alloying with heavy rare earth elements. *MATEC Web of Conferences*, **2018**, 188, 03021 | 0.3 | 2 |
| 99 | Modification of Magnesium Alloys by Ceramic Particles in Gravity Die Casting. *International Journal of Metals*, **2014**, 2014, 1-7 | | 2 |
| 98 | The formation of Sr6.33Mg16.67Si13 in magnesium alloy AM50 and its effect on mechanical properties. *Journal of Materials Science*, **2012**, 47, 5461-5469 | 4.3 | 2 |
| 97 | Zone coulometry and ion-release analysis of degradable magnesium alloys. *Emerging Materials Research*, **2013**, 2, 248-262 | 1.4 | 2 |
| 96 | High Temperature Deformation Mechanisms and Processing Map for Hot Working of Cast-Homogenized Mg-3Sn-2Ca Alloy. *Materials Science Forum*, **2010**, 638-642, 3616-3621 | 0.4 | 2 |
| 95 | Influence of Strontium, Silicon and Calcium Additions on the Properties of the AM50 Alloy. *Materials Science Forum*, **2009**, 618-619, 459-462 | 0.4 | 2 |
| 94 | Influence of Cerium on the Formation of Micro-Galvanic Corrosion Elements of AZ91. *Materials Science Forum*, **2011**, 690, 381-384 | 0.4 | 2 |
| 93 | Castability of some Magnesium Alloys in a Novel Castability Die. *Materials Science Forum*, **2011**, 690, 61-64 | 0.4 | 2 |
| 92 | In Situ Investigation of Microstructure Evolution during Solidification of Mg10CaxGd (x=5, 10, 20) Alloys. *Acta Physica Polonica A*, **2015**, 128, 606-611 | 0.6 | 2 |
| 91 | In Situ Synchrotron Radiation Diffraction of the Solidification of Mg-Dy(-Zr) Alloys **2016**, 17-21 | | 2 |
| 90 | Investigations on Hot Tearing of Mg-Zn-(Al) Alloys **2011**, 125-130 | | 2 |
| 89 | Voltammetric Studies of Extruded Pure Magnesium in Different Electrolytes and Its Corrosion Morphology. *Minerals, Metals and Materials Series*, **2017**, 429-437 | 0.3 | 2 |
| 88 | Magnesium and Magnesium Alloys113-150 | | 2 |
| 87 | 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 |
| 86 | Solid Solution Strengthening in Mg-Gd Alloys **2016**, 135-139 | | 2 |
| 85 | Microstructure and Fracture Toughness of an Extruded Mg-Dy-Nd-Zn-Zr Alloy Influenced by Heat Treatment. *Minerals, Metals and Materials Series*, **2021**, 19-26 | 0.3 | 2 |
| 84 | Crack Propagation under Bending in Cast Mg10GdxNd-T4 Alloys77-82 | | 2 |

| | | | |
|---|---|---|---|
| 83 | Texture Evolution during Wire Drawing of Mg-RE Alloy251-256 | | 2 |
| 82 | Influences of AlN/Al Nanoparticles on the Creep Properties of Elektron21 Prepared by High Shear Dispersion Technology. *Jom*, **2019**, 71, 2245-2252 | 2.1 | 1 |
| 81 | Deformation Mechanisms and Formability Window for As-Cast Mg-6Al-2Ca-1Sn-0.3Sr Alloy (MRI 230D). *Journal of Materials Engineering and Performance*, **2018**, 27, 1440-1449 | 1.6 | 1 |
| 80 | Microstructure and Mechanical Properties of Mg-Gd Alloys as Biodegradable Implant Materials. *Minerals, Metals and Materials Series*, **2018**, 253-262 | 0.3 | 1 |
| 79 | Grain refinements of magnesium alloys inoculated by additions of external SiC particles. *IOP Conference Series: Materials Science and Engineering*, **2019**, 529, 012049 | 0.4 | 1 |
| 78 | Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. *Advanced Materials Research*, **2014**, 1019, 169-176 | 0.5 | 1 |
| 77 | Deformation-Induced Dynamic Precipitation during Creep in Magnesium-Tin Alloys. *Key Engineering Materials*, **2014**, 627, 365-368 | 0.4 | 1 |
| 76 | Hot Forging of Cast Magnesium Alloy TX31 Using Semi-Closed Die and its Finite Element Simulation. *Materials Science Forum*, **2014**, 783-786, 449-454 | 0.4 | 1 |
| 75 | Metal Matrix Composites: Magnesium **2012**, 1 | | 1 |
| 74 | Nucleation Kinetics of the Phase in a Binary Mg-Al Alloy **2013**, 259-262 | | 1 |
| 73 | Biodegradable Magnesium Implants - How Do They Corrode in-vivo? **2011**, 17-17 | | 1 |
| 72 | Aluminium-Rich Coring Structures in Mg-Al Alloys with Carbon Inoculation. *Materials Science Forum*, **2010**, 654-656, 675-678 | 0.4 | 1 |
| 71 | Development of a Magnesium Recycling Alloy Based on AM50. *Materials Science Forum*, **2007**, 539-543, 108-113 | 0.4 | 1 |
| 70 | Influence of Heat Treatment on Microstructure of Hot Extruded AZ31. *Materials Science Forum*, **2003**, 419-422, 297-302 | 0.4 | 1 |
| 69 | Some Studies on Mg Alloy Reinforced with Ceramic Discontinuous Phases. *Materials Science Forum*, **2003**, 419-422, 837-844 | 0.4 | 1 |
| 68 | Effect of Thermal Treatment on Thermal Expansion Behaviour of Magnesium Alloy Based Hybrid Composites. *Materials Science Forum*, **2003**, 426-432, 2027-2032 | 0.4 | 1 |
| 67 | Revisiting the tolerance limit of Fe impurity in biodegradable magnesium. *Scripta Materialia*, **2022**, 212, 114509 | 5.6 | 1 |
| 66 | Effects of Mn and Zn Solutes on Grain Refinement of Commercial Pure Magnesium. *Minerals, Metals and Materials Series*, **2017**, 191-198 | 0.3 | 1 |

| | | | |
|---|---|---|---|
| 65 | Effects of Gadolinium and Neodymium Addition on Young's Modulus of Magnesium-Based Binary Alloys. *Minerals, Metals and Materials Series*, **2017**, 341-347 | 0.3 | 1 |
| 64 | Advances in Manufacturing Processes for Magnesium Alloys **2016**, 19-24 | | 1 |
| 63 | Effect of Nd Additions on the Mechanical Properties of Mg Binary Alloys. *Jom*, **2020**, 72, 517-525 | 2.1 | 1 |
| 62 | The Video Microscopy-Linked Electrochemical Cell: An Innovative Method to Improve Electrochemical Investigations of Biodegradable Metals. *Materials*, **2021**, 14, | 3.5 | 1 |
| 61 | 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. *Materials*, **2021**, 14, | 3.5 | 1 |
| 60 | Investigations on the tensile deformation of pure Mg and Mg15Gd alloy by in-situ X-ray synchrotron radiation and visco-plastic self-consistent modeling. *Journal of Magnesium and Alloys*, **2021**, | 8.8 | 1 |
| 59 | Thermodynamic Description of Reactions between Mg and CaO **2016**, 67-72 | | 1 |
| 58 | Influences of SiC Particle Additions on the Grain Refinement of Mg2n Alloys. *Minerals, Metals and Materials Series*, **2019**, 331-338 | 0.3 | 1 |
| 57 | In vivo degradability and biocompatibility of a rheo-formed Mg2n5r alloy for ureteral implantation. *Journal of Magnesium and Alloys*, **2021**, | 8.8 | 1 |
| 56 | Effect of LPSO Phases on Crack Propagation in an Extruded MgDyNd2n2r Alloy Influenced by Heat Treatment. *Minerals, Metals and Materials Series*, **2021**, 45-55 | 0.3 | 1 |
| 55 | Connected Process Design for Hot Working of a Creep-Resistant Mg2Al2Ba2Ca Alloy (ABaX422). *Metals*, **2018**, 8, 463 | 2.3 | 1 |
| 54 | urinary compatibility of Mg-Sr-Ag alloy in swine model. *Bioactive Materials*, **2022**, 7, 254-262 | 16.7 | 1 |
| 53 | Nano-Indentation Studies of Twinned Magnesium Single Crystals117-119 | | 1 |
| 52 | Solidification Studies of Mg-Al Binary Alloys175-178 | | 1 |
| 51 | Mechanical and Corrosion Properties of As-Cast and Extruded MG10GD Alloy for Biomedical Application253-259 | | 1 |
| 50 | Texture Evolution during Hot Deformation Processing of Mg-3Sn-2Ca-0.4Al Alloy295-300 | | 1 |
| 49 | In Situ Synchrotron Radiation Diffraction during Melting and Solidification of Mg-Al Alloys Containing CaO191-195 | | 1 |
| 48 | Advances in Manufacturing Processes for Magnesium Alloys **2014**, 19-24 | | 0 |

| | | | |
|---|---|---|---|
| 47 | Effects of Y Additions on the Microstructures and Mechanical Behaviours of as Cast Mg□x Y□.5Zr Alloys. *Advanced Engineering Materials*,2101033 | 3.5 | 0 |
| 46 | Restoration Mechanisms at Moderate Temperatures for As-Cast ZK40 Magnesium Alloys Modified with Individual Ca and Gd Additions. *Crystals*, **2020**, 10, 1140 | 2.3 | 0 |
| 45 | In Vitro Corrosion and Cytocompatibility Properties of Mg-2Gd-X(Ag, Ca) Alloys **2016**, 347-351 | | 0 |
| 44 | Interdiffusion and atomic mobility in hcp Mg□Al□n alloys. *Journal of Alloys and Compounds*, **2021**, 871, 159517 | 5.7 | 0 |
| 43 | Observations of Microstructure-Oriented Crack Growth in a Cast Mg-Al-Ba-Ca Alloy under Tension, Compression and Fatigue. *Metals*, **2022**, 12, 613 | 2.3 | 0 |
| 42 | Characterization of the deformation state of magnesium by electrical resistance. *Scripta Materialia*, **2022**, 215, 114712 | 5.6 | 0 |
| 41 | Intermetallic Phase Characteristics in the Mg□Nd□n System. *Minerals, Metals and Materials Series*, **2018**, 391-397 | 0.3 | |
| 40 | Study on Mg□i□r Ternary Alloys for Biomedical Applications. *Minerals, Metals and Materials Series*, **2018**, 413-424 | 0.3 | |
| 39 | Influences of Yttrium Content on Microstructure and Mechanical Properties of as-cast Mg□a□□r Alloys. *Minerals, Metals and Materials Series*, **2018**, 91-97 | 0.3 | |
| 38 | Role of Sic in Grain Refinement of Aluminum-Free Mg-Zn Alloys **2016**, 177-181 | | |
| 37 | Hot Tearing Susceptibility of Mg-5Nd-xZn Alloys **2016**, 129-134 | | |
| 36 | Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications **2015**, 425-429 | | |
| 35 | Mechanical and Corrosive Properties of Two Magnesium Wires: Mg4Gd and Mg6Ag **2015**, 391-398 | | |
| 34 | Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. *Advanced Materials Research*, **2014**, 996, 592-597 | 0.5 | |
| 33 | Microstructure and Compression Creep Strength of the Newly Developed Magnesium Alloy DieMag422. *Advanced Materials Research*, **2014**, 1019, 177-183 | 0.5 | |
| 32 | A New Magnesium Alloy System: TEXAS **2013**, 231-235 | | |
| 31 | Residual Stresses in the Hot Sprues of as-cast Mg-Zn Alloys Investigated by STRESS-SPEC Neutron Diffractometer. *Materials Science Forum*, **2013**, 768-769, 428-432 | 0.4 | |
| 30 | Bolt Load Retention and Creep Response of AS41 Alloyed with 0.15 % Ca. *SAE International Journal of Materials and Manufacturing*, **2010**, 3, 202-210 | 1 | |

| | | |
|---|---|---|
| 29 | In Situ Studies of Light Metals with Synchrotron Radiation and Neutrons. *Materials Science Forum*, **2011**, 690, 192-197 | 0.4 |
| 28 | Modeling Bolt Load Retention of Ca Modified AS41 Using Compliance-Creep Method. *Materials Science Forum*, **2011**, 690, 278-281 | 0.4 |
| 27 | Deformation Microstructures and Textures of Cast Mg-3Sn-2Ca Alloy under Uniaxial Hot Compression. *Applied Mechanics and Materials*, **2012**, 152-154, 322-325 | 0.3 |
| 26 | To Fail or Not to Fail. *Minerals, Metals and Materials Series*, **2022**, 165-168 | 0.3 |
| 25 | Nanomechanical Analysis and Fractography of Extruded Mg-Dy-Nd Based Alloy Influenced by Solution Heat Treatment. *Minerals, Metals and Materials Series*, **2022**, 181-187 | 0.3 |
| 24 | Electrical Resistivity of Binary Mg Alloys. *Minerals, Metals and Materials Series*, **2022**, 43-49 | 0.3 |
| 23 | Investigation on the Microstructure and Mechanical Properties of Mg□Gd□Nd Ternary Alloys. *Minerals, Metals and Materials Series*, **2020**, 79-85 | 0.3 |
| 22 | Powder Metallurgical Synthesis of Biodegradable Mg-Hydroxyapatite Composites for Biomedical Applications **2015**, 425-429 | |
| 21 | Hot Tearing Susceptibility of Mg-5Nd-xZn Alloys **2016**, 129-134 | |
| 20 | Elevated Temperature and Varied Load Response of AS41 at Bolted Joint **2016**, 511-516 | |
| 19 | Solid Solution Strengthening in Mg-Gd Alloys **2016**, 135-139 | |
| 18 | Effect of the Zn Content on the Compression Behaviour of Mg5Nd(Zn): An In Situ Synchrotron Radiation Diffraction Study. *Minerals, Metals and Materials Series*, **2017**, 675-681 | 0.3 |
| 17 | Biodegradable Magnesium Implants □How do They Corrode in-Vivo? **2011**, 17-17 | |
| 16 | Mechanical and Corrosion Properties of as-cast and Extruded MG10GD alloy for Biomedical Application **2012**, 253-259 | |
| 15 | Microstructure and Mechanical Properties of High Pressure Die Cast AM50 Magnesium Alloy Containing Ce149-154 | |
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| 12 | A new magnesium alloy system: TEXAS **2013**, 231-235 | |

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| 11 | High Temperature Deformation of Magnesium Alloy TX32-0.4Al-0.8Si41-45 | |
| 10 | Crack Propagation Under Bending in Cast Mg10GdxNd-T4 Alloys **2014**, 77-82 | |
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| 2 | In Situ Synchrotron Radiation Diffraction of The Solidificationof Mg-Dy(-Zr) Alloys **2016**, 15-21 | |
| 1 | Microstructures, Corrosion and Mechanical Properties of Mg□i Alloys as Biodegradable Implant Materials. *Minerals, Metals and Materials Series*, **2019**, 151-157 | 0.3 |