Karl Kainer

List of Publications by Year in Descending Order

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Version: 2024-04-03

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

 367
 12,366
 52
 99

 papers
 h-index
 g-index

 388
 13,733
 3.1
 6.37

 ext. papers
 ext. citations
 avg, IF
 L-index

#	Paper	IF	Citations
367	Revisiting the tolerance limit of Fe impurity in biodegradable magnesium. <i>Scripta Materialia</i> , 2022 , 212, 114509	5.6	1
366	Influence of Third Alloying Element on Dislocation Slip and Twinning Activities in MgMd-Based Alloys. <i>Minerals, Metals and Materials Series</i> , 2022 , 97-103	0.3	
365	Influence of the amount of intermetallics on the degradation of Mg-Nd alloys under physiological conditions. <i>Acta Biomaterialia</i> , 2021 , 121, 695-712	10.8	11
364	Improving the Creep Resistance of Elektron21 by Adding AlN/Al Nanoparticles Using the High Shear Dispersion Technique. <i>Minerals, Metals and Materials Series</i> , 2021 , 57-69	0.3	
363	Effects of heat treatment on the microstructural evolution and creep resistance of Elektron21 alloy and its nanocomposite. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2020 , 789, 139669	5.3	4
362	Effect of Ca and Nd on the microstructural development during dynamic and static recrystallization of indirectly extruded MgIn based alloys. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 793, 139527	5.3	7
361	Individual/synergistic effects of Al and AlN on the microstructural evolution and creep resistance of Elektron21 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 777, 139072	5.3	7
360	Thixomolded AZ91D and MRI153M magnesium alloys and their enhanced corrosion resistance. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2020 , 71, 339-351	1.6	2
359	Effect of Heat Treatment on the Corrosion Behavior of Mg-10Gd Alloy in 0.5% NaCl Solution. <i>Frontiers in Materials</i> , 2020 , 7,	4	5
358	Cold Formability of Extruded Magnesium Bands. <i>Minerals, Metals and Materials Series</i> , 2020 , 329-334	0.3	
357	Effect of Nd Additions on the Mechanical Properties of Mg Binary Alloys. <i>Jom</i> , 2020 , 72, 517-525	2.1	1
356	On the Direct Extrusion of Magnesium Wires from Mg-Al-Zn Series Alloys. <i>Metals</i> , 2020 , 10, 1208	2.3	9
355	Effects of Intermetallic Microstructure on Degradation of Mg-5Nd Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 5498-5515	2.3	4
354	Influences of AlN/Al Nanoparticles on the Creep Properties of Elektron21 Prepared by High Shear Dispersion Technology. <i>Jom</i> , 2019 , 71, 2245-2252	2.1	1
353	The Role of Second Phases on the Creep Behavior of As-Cast and Hot-Extruded Mg-Ca-Zr Alloys. <i>Jom</i> , 2019 , 71, 2227-2234	2.1	
352	Unexpected Expansion Behavior of Mg-Al Alloys During Isothermal Ageing. <i>Jom</i> , 2019 , 71, 2906-2912	2.1	2
351	Role of deformation mechanisms and grain growth in microstructure evolution during recrystallization of Mg-Nd based alloys. <i>Scripta Materialia</i> , 2019 , 166, 53-57	5.6	29

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350	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 & Materials Science and Processing</i> , 2019 , 755, 18-27	5.3	18	
349	Enhanced predictive corrosion modeling with implicit corrosion products. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 2247-2255	1.6	5	
348	Grain refinements of magnesium alloys inoculated by additions of external SiC particles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 529, 012049	0.4	1	
347	Influences of Al and high shearing dispersion technique on the microstructure and creep resistance of Mg-2.85Nd-0.92Gd-0.41Zr-0.29Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2019 , 764, 138215	5.3	8	
346	Influence of Nd or Ca addition on the dislocation activity and texture changes of MgIn alloy sheets under uniaxial tensile loading. <i>Materials Science & Description of the Properties, Microstructure and Processing</i> , 2019 , 761, 138053	5.3	18	
345	Development of Pore-Free Ti-Si-C MAX/Al-Si Composite Materials Manufactured by Squeeze Casting Infiltration. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 6248-6257	1.6	6	
344	Processing Effects on the Formability of Extruded Flat Products of Magnesium Alloys. <i>Frontiers in Materials</i> , 2019 , 6,	4	4	
343	Influence of Microstructure Evolution During Twin-Roll Casting on the Properties of Magnesium Sheets. <i>Minerals, Metals and Materials Series</i> , 2019 , 1677-1686	0.3		
342	Influences of SiC Particle Additions on the Grain Refinement of MgIn Alloys. <i>Minerals, Metals and Materials Series</i> , 2019 , 331-338	0.3	1	
341	Corrosion behaviour of as-cast ZK40 with CaO and Y additions. <i>Transactions of Nonferrous Metals Society of China</i> , 2018 , 28, 427-439	3.3	7	
340	Influences of Yttrium Content on Microstructure and Mechanical Properties of as-cast MgIlaliar Alloys. <i>Minerals, Metals and Materials Series</i> , 2018 , 91-97	0.3		
339	Deformation and Recrystallization Mechanisms and Their Influence on the Microstructure Development of Rare Earth Containing Magnesium Sheets. <i>Minerals, Metals and Materials Series</i> , 2018 , 209-216	0.3	2	
338	Mg Alloys: Challenges and Achievements in Controlling Performance, and Future Application Perspectives. <i>Minerals, Metals and Materials Series</i> , 2018 , 3-14	0.3	6	
337	Towards Active Corrosion Protection of Mg Alloys Using Corrosion Inhibition Approaches. <i>Minerals, Metals and Materials Series</i> , 2018 , 19-20	0.3		
336	Magnesium Pistons in Engines: Fiction or Fact?. Minerals, Metals and Materials Series, 2018, 349-353	0.3	2	
335	Waste Mg-Al based alloys for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 16	5738 7 16	748	
334	Current Status and Recent Developments in Porous Magnesium Fabrication. <i>Advanced Engineering Materials</i> , 2018 , 20, 1700562	3.5	18	
333	Influence of particle additions on corrosion and wear resistance of plasma electrolytic oxidation coatings on Mg alloy. <i>Surface and Coatings Technology</i> , 2018 , 352, 1-14	4.4	32	

332	The Effect of Solid Solute and Precipitate Phase on Young's Modulus of Binary Mg R E Alloys. <i>Advanced Engineering Materials</i> , 2018 , 20, 1800271	3.5	7
331	Processing Effects on the Formability of Magnesium Alloy Sheets. <i>Metals</i> , 2018 , 8, 147	2.3	16
330	Simulation assisted investigation of substrate geometry impact on PEO coating formation. <i>Surface and Coatings Technology</i> , 2018 , 350, 281-297	4.4	5
329	Enhanced predictive corrosion modeling via randomly distributed boundary conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018 , 69, 1720-1728	1.6	4
328	Profile Shape Effect on the Texture and Mechanical Properties of Extruded Rare Earth Containing Magnesium Alloys. <i>Acta Physica Polonica A</i> , 2018 , 134, 714-719	0.6	2
327	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> , 2018 , 55, 268-287	0.3	
326	Magnesium and Magnesium Alloys. Springer Handbooks, 2018, 151-159	1.3	2
325	Effects of Gd solutes on hardness and yield strength of Mg alloys. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 724-730	3.6	30
324	Influence of SiO2 Particles on the Corrosion and Wear Resistance of Plasma Electrolytic Oxidation-Coated AM50 Mg Alloy. <i>Coatings</i> , 2018 , 8, 306	2.9	11
323	3D reconstruction of plasma electrolytic oxidation coatings on Mg alloy via synchrotron radiation tomography. <i>Corrosion Science</i> , 2018 , 139, 395-402	6.8	55
322	Sintering Behavior and Microstructure Formation of Titanium Aluminide Alloys Processed by Metal Injection Molding. <i>Jom</i> , 2017 , 69, 676-682	2.1	11
321	The Use of Neutron and Synchrotron Research for Aerospace and Automotive Materials and Components 2017 , 327-364		
320	Corrosion and Creep Resistance of Thixomolded Magnesium Alloys. <i>Minerals, Metals and Materials Series</i> , 2017 , 381-389	0.3	4
319	3D Microstructural Evolution on Solidifying MgBNdBZn Alloy Observed via In Situ Synchrotron Tomography. <i>Minerals, Metals and Materials Series</i> , 2017 , 605-612	0.3	2
318	Predictive modeling of long-time crevice evolution at e-coat defects under climate chamber test conditions. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017 , 68, 699-710	1.6	3
317	Influence of Dy in solid solution on the degradation behavior of binary Mg-Dy alloys in cell culture medium. <i>Materials Science and Engineering C</i> , 2017 , 75, 1351-1358	8.3	15
316	Recent research and developments on wrought magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2017 , 5, 239-253	8.8	301
315	Influence of plasma electrolytic oxidation coatings on fatigue performance of AZ31 Mg alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 50-57	1.6	7

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314	As cast microstructures on the mechanical and corrosion behaviour of 2K40 modified with Gd and Nd additions. <i>Materials Science & Discourse and Processing</i> , 2017 , 682, 238-247	5.3	20	
313	Effects of Mn and Zn Solutes on Grain Refinement of Commercial Pure Magnesium. <i>Minerals, Metals and Materials Series</i> , 2017 , 191-198	0.3	1	
312	Effects of Gadolinium and Neodymium Addition on Young Modulus of Magnesium-Based Binary Alloys. <i>Minerals, Metals and Materials Series</i> , 2017 , 341-347	0.3	1	
311	A model describing the growth of a PEO coating on AM50 Mg alloy under constant voltage mode. <i>Electrochimica Acta</i> , 2017 , 251, 461-474	6.7	16	
310	Effect of the Zn Content on the Compression Behaviour of Mg5Nd(Zn): An In Situ Synchrotron Radiation Diffraction Study. <i>Minerals, Metals and Materials Series</i> , 2017 , 675-681	0.3		
309	Die Leichtbauwerkstoffe filden Fahrzeugbau 2017 , 205-449		1	
308	Creep behavior of MgIIOGdIIZn (x=2 and 6 wt%) alloys. <i>Materials Science & Discrete Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 649, 158-167	5.3	15	
307	Plasma electrolytic oxidation coatings with particle additions IA review. <i>Surface and Coatings Technology</i> , 2016 , 307, 1165-1182	4.4	271	
306	Unexpected formation of hydrides in heavy rare earth containing magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 173-180	8.8	24	
305	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	6.8	43	
304	In Situ Tensile Texture Analysis of a New Mg-RE Alloy. <i>Materials Science Forum</i> , 2016 , 879, 779-783	0.4		
303	Formation of photocatalytic plasma electrolytic oxidation coatings on magnesium alloy by incorporation of TiO2 particles. <i>Surface and Coatings Technology</i> , 2016 , 307, 287-291	4.4	12	
302	Microstructure and Mechanical Properties of Ca Containing AZX310 Alloy Sheets Produced via Twin Roll Casting Technology 2016 , 383-387			
301	Role of Sic in Grain Refinement of Aluminum-Free Mg-Zn Alloys 2016 , 177-181			
300	Forging of cast Mg-3Sn-2Ca-0.4Al-0.4Si magnesium alloy using processing map. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 2699-2705	1.6	4	
299	Hot tearing characteristics of MgIZCaIZn alloys. <i>Journal of Materials Science</i> , 2016 , 51, 2687-2704	4.3	23	
298	Investigation of electrode distance impact on PEO coating formation assisted by simulation. <i>Applied Surface Science</i> , 2016 , 388, 304-312	6.7	17	
297	Influence of electrical parameters on particle uptake during plasma electrolytic oxidation processing of AM50 Mg alloy. <i>Surface and Coatings Technology</i> , 2016 , 289, 179-185	4.4	35	

296	Investigation of the formation mechanisms of plasma electrolytic oxidation coatings on Mg alloy AM50 using particles. <i>Electrochimica Acta</i> , 2016 , 196, 680-691	6.7	70
295	Plasma electrolytic oxidation coatings on Mg alloy with addition of SiO2 particles. <i>Electrochimica Acta</i> , 2016 , 187, 20-33	6.7	170
294	Microstructure and Mechanical Properties of Ca Containing AZX310 Alloy Sheets Produced via Twin Roll Casting Technology 2016 , 383-387		2
293	Advances in Manufacturing Processes for Magnesium Alloys 2016 , 19-24		1
292	Role of SiC in Grain Refinement of Aluminum-Free Mg-Zn Alloys 2016 , 177-181		
291	Elevated Temperature and Varied Load Response of AS41 at Bolted Joint 2016 , 511-516		
290	Solid Solution Strengthening in Mg-Gd Alloys 2016 , 135-139		
289	Microstructural and Mechanical Aspects of Reinforcement Welds for Lightweight Components Produced by Friction Hydro Pillar Processing 2016 , 499-504		
288	Formability of Magnesium Sheet ZE10 and AZ31 with Respect to Initial Texture 2016 , 357-362		
287	Thermodynamic Description of Reactions between Mg and CaO 2016 , 67-72		
286	Thermodynamic Description of Reactions between Mg and CaO 2016 , 67-72		1
285	The Role of Zn on the Elevated Temperature Compression Behavior of Mg5Nd: An In Situ Synchrotron Radiation Diffraction Study. <i>Jom</i> , 2016 , 68, 3051-3056	2.1	2
284	Axial fatigue testing of TiBAlBV using an alternative specimen geometry fabricated by metal injection moulding. <i>Powder Metallurgy</i> , 2016 , 59, 344-349	1.9	0
283	In situ synchrotron radiation diffraction investigation of the compression behaviour at 350°C of ZK40 alloys with addition of CaO and Y. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 664, 2-9	5.3	10
282	Solid Solution Strengthening in Mg-Gd Alloys 2016 , 135-139		2
281	Comparative study of microstructure and texture of cast and homogenized TX32 magnesium alloy after hot deformation. <i>Metals and Materials International</i> , 2015 , 21, 134-146	2.4	7
280	The effect of zirconium addition on sintering behaviour, microstructure and creep resistance of the powder metallurgy processed alloy Tia5Al6Nb0.2B0.2C. <i>Materials and Design</i> , 2015 , 84, 87-94	8.1	17
279	Influence of Alloying Elements and Extrusion Process Parameter on the Recrystallization Process of Mg-Zn alloys. <i>Materials Today: Proceedings</i> , 2015 , 2, S19-S25	1.4	9

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278	Calcium and zirconium as texture modifiers during rolling and annealing of magnesium inc alloys. <i>Materials Characterization</i> , 2015 , 101, 144-152	3.9	67	
277	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	
276	Twin-Roll Casting after Intensive Melt Shearing and Subsequent Rolling of an AM30 Magnesium Alloy with Addition of CaO and SiC. <i>Materials Science Forum</i> , 2015 , 828-829, 35-40	0.4	3	
275	Insights into plasma electrolytic oxidation treatment with particle addition. <i>Corrosion Science</i> , 2015 , 101, 201-207	6.8	78	
274	In situ synchrotron radiation diffraction study of the role of Gd, Nd on the elevated temperature compression behavior of ZK40. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015 , 640, 129-136	5.3	10	
273	Hot Tearing Susceptibility of Mg-Ca Binary Alloys. <i>Metallurgical and Materials Transactions A:</i> Physical Metallurgy and Materials Science, 2015 , 46, 6003-6017	2.3	17	
272	High Strength Magnesium Alloys Through Precipitation Hardening and Micro Alloying: Considerations for Alloy Design. <i>Jom</i> , 2015 , 67, 2427-2432	2.1	7	
271	Degradation behavior of PEO coating on AM50 magnesium alloy produced from electrolytes with clay particle addition. <i>Surface and Coatings Technology</i> , 2015 , 269, 155-169	4.4	62	
270	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> , 2015 , 618, 64-66	5.7	21	
269	Sintering behaviour of Till5All6Nb0.2B0.2C alloy modifications by additions of elemental titanium and aluminium. <i>Powder Metallurgy</i> , 2015 , 58, 369-375	1.9	3	
268	Challenges and Solutions in the Development of Magnesium Sheet for Sustainable Vehicle Concepts. <i>Materials Science Forum</i> , 2015 , 828-829, 15-22	0.4	2	
267	Magnesium Melt Protection. <i>Materials Science Forum</i> , 2015 , 828-829, 78-81	0.4	7	
266	Effect of Zn addition on hot tearing behaviour of MgD.5CaNZn alloys. <i>Materials and Design</i> , 2015 , 87, 157-170	8.1	30	
265	Experimental and numerical crushing analyses of thin-walled magnesium profiles. <i>International Journal of Crashworthiness</i> , 2015 , 20, 177-190	1	26	
264	An Investigation on Hot Tearing of Mg-4.5Zn-(0.5Zr) Alloys with Y Additions. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 2108-2118	2.3	23	
263	In Situ Investigation of Microstructure Evolution during Solidification of Mg10CaxGd (x=5, 10, 20) Alloys. <i>Acta Physica Polonica A</i> , 2015 , 128, 606-611	0.6	2	
262	Investigations on microstructures, mechanical and corrosion properties of Mgtdln alloys. <i>Materials Science & Amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 595, 224-234	5.3	84	
261	In vitro mechanical and corrosion properties of biodegradable MgAg alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014 , 65, 569-576	1.6	51	

260	Study of hot forging behavior of as-cast MgBAllIZnIZCa alloy towards optimization of its hot workability. <i>Materials & Design</i> , 2014 , 57, 697-704		28
259	Understanding effects of microstructural inhomogeneity on creep response [New approaches to improve the creep resistance in magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 124-132	8.8	19
258	Effect of aluminium and calcium on the microstructure, texture, plastic deformation and related acoustic emission of extruded magnesium anganese alloys. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 253-264	5.7	17
257	Measurement and calculation of the viscosity of metals review of the current status and developing trends. <i>Measurement Science and Technology</i> , 2014 , 25, 062001	2	33
256	Hot tearing mechanisms of B206 aluminumdopper alloy. <i>Materials & Design</i> , 2014 , 64, 44-55		33
255	Effect of aluminum on microstructural evolution during hot deformation of TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2014 , 49, 5885-5898	4.3	7
254	A Study on the Hot Deformation Behavior of Cast Mg-4Sn-2Ca (TX42) Alloy. <i>Jom</i> , 2014 , 66, 322-328	2.1	4
253	Advances in Manufacturing Processes for Magnesium Alloys 2014 , 19-24		O
252	Effect of silicon content on hot working, processing maps, and microstructural evolution of cast TX32 D .4Al magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 606, 11-23	5.3	12
251	Microstructures and mechanical properties of pure Mg processed by rotary swaging. <i>Materials & Design</i> , 2014 , 63, 83-88		34
251 250		3.3	34
	Design, 2014, 63, 83-88 Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through	3.3	
250	Design, 2014, 63, 83-88 Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through processing map. Production and Manufacturing Research, 2014, 2, 241-252 Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with		3
250 249	Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , 2014 , 2, 241-252 Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. <i>Advanced Materials Research</i> , 2014 , 1019, 169-176 Corrosion behavior of MgCdDn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and</i>	0.5	3
250 249 248	Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , 2014 , 2, 241-252 Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. <i>Advanced Materials Research</i> , 2014 , 1019, 169-176 Corrosion behavior of MgDdDn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 245-256 Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. <i>Advanced</i>	0.5	3
250 249 248 247	Investigation of hot workability behavior of as-cast MgBSnDCa (TX52) magnesium alloy through processing map. Production and Manufacturing Research, 2014, 2, 241-252 Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. Advanced Materials Research, 2014, 1019, 169-176 Corrosion behavior of MgDdDn based alloys in aqueous NaCl solution. Journal of Magnesium and Alloys, 2014, 2, 245-256 Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. Advanced Materials Research, 2014, 996, 592-597 Deformation-Induced Dynamic Precipitation during Creep in Magnesium-Tin Alloys. Key Engineering	0.5 8.8 0.5	3 1 51
250249248247246	Investigation of hot workability behavior of as-cast MgBSnIICa (TX52) magnesium alloy through processing map. <i>Production and Manufacturing Research</i> , 2014 , 2, 241-252 Mechanical Properties and Microstructures of Nano SiC Reinforced ZE10 Composites Prepared with Ultrasonic Vibration. <i>Advanced Materials Research</i> , 2014 , 1019, 169-176 Corrosion behavior of MgIIdIn based alloys in aqueous NaCl solution. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 245-256 Residual Stresses of the As-Cast Mg-xCa Alloys with Hot Sprues by Neutron Diffraction. <i>Advanced Materials Research</i> , 2014 , 996, 592-597 Deformation-Induced Dynamic Precipitation during Creep in Magnesium-Tin Alloys. <i>Key Engineering Materials</i> , 2014 , 627, 365-368	0.5 8.8 0.5	3 1 51

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242	Role of multi-microalloying by rare earth elements in ductilization of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2014 , 2, 1-7	8.8	61
241	Experimental and numerical analysis of hot tearing susceptibility for MgM alloys. <i>Journal of Materials Science</i> , 2014 , 49, 353-362	4.3	35
240	Hot Tearing Characteristics of Binary Mg-Gd Alloy Castings. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013 , 44, 2285-2298	2.3	32
239	Bulk and local textures of pure magnesium processed by rotary swaging. <i>Journal of Magnesium and Alloys</i> , 2013 , 1, 341-345	8.8	17
238	Hot tearing susceptibility of binary MgN alloy castings. <i>Materials & Design</i> , 2013 , 47, 90-100		63
237	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> , 2013 , 1, 267-274	8.8	52
236	Thermodynamic assessment and experimental study of MgCd alloys. <i>Journal of Alloys and Compounds</i> , 2013 , 581, 166-177	5.7	39
235	Microstructure and mechanical properties of as-cast MgBnta alloys and effect of alloying elements. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 3604-3610	3.3	30
234	Microstructure, mechanical and corrosion properties of Mg-Dy-Gd-Zr alloys for medical applications. <i>Acta Biomaterialia</i> , 2013 , 9, 8499-508	10.8	64
233	Effects of Sn segregation and precipitates on creep response of Mg-Sn alloys. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2013 , 36, 308-315	3	12
232	Influence of Ce addition on microstructure and mechanical properties of high pressure die cast AM50 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2013 , 23, 66-72	3.3	22
231	Element distribution in the corrosion layer and cytotoxicity of alloy Mg-10Dy during in vitro biodegradation. <i>Acta Biomaterialia</i> , 2013 , 9, 8475-87	10.8	72
230	Effect of calcium addition on the hot working behavior of as-cast AZ31 magnesium alloy. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 588, 272-279	5.3	21
229	In situ synchrotron diffraction of the solidification of Mg4Y3Nd. <i>Materials Letters</i> , 2013 , 102-103, 62-64	3.3	31
228	Development of a magnesium secondary alloy system for mixed magnesium post-consumer scrap. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 576, 222-230	5.3	6
227	A New Magnesium Alloy System: TEXAS 2013 , 231-235		
226	Hot workability analysis with processing map and texture characteristics of as-cast TX32 magnesium alloy. <i>Journal of Materials Science</i> , 2013 , 48, 5236-5246	4.3	20
225	General and Localized Corrosion of Magnesium Alloys: A Critical Review. <i>Journal of Materials</i> Engineering and Performance, 2013 , 22, 2875-2891	1.6	27

224	High Temperature Deformation and Microstructural Features of TXA321 Magnesium Alloy: Correlations with Processing Map. <i>Advanced Engineering Materials</i> , 2013 , 15, 761-766	3.5	6
223	Improving Corrosion Resistance of Mg10Gd Alloy. <i>Materials Science Forum</i> , 2013 , 765, 673-677	0.4	3
222	Acoustic Emission Study of Mg-Mn Extruded Alloys with Prospective Mechanical Properties. <i>Materials Science Forum</i> , 2013 , 765, 537-542	0.4	
221	Influence of Process Parameters on Twin Roll Cast Strip of the Alloy AZ31. <i>Materials Science Forum</i> , 2013 , 765, 205-209	0.4	20
220	Compressive strength and hot deformation mechanisms in as-cast Mg-4Al-2Ba-2Ca (ABaX422) alloy. <i>Philosophical Magazine</i> , 2013 , 93, 4364-4377	1.6	14
219	Microstructure, Mechanical and Corrosion Properties of Mg-Gd-Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 28-32	0.4	4
218	Study of the Solidification of AS Alloys Combining In Situ Synchrotron Diffraction and Differential Scanning Calorimetry. <i>Materials Science Forum</i> , 2013 , 765, 286-290	0.4	14
217	Influences of Y Additions on the Hot Tearing Susceptibility of Mg-1.5wt.%Zn Alloys. <i>Materials Science Forum</i> , 2013 , 765, 306-310	0.4	10
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