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Dynamic recrystallization in AZ31 magnesium alloy

DOI: 10.1016/j.msea.2006.11.095 Materials Science & Samp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 456, 52-57.

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#	Paper	IF	Citations
297	A study on the effect of thermo-mechanical parameters on the deformation behavior of MgBAlIIZn. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 497, 438-444	5.3	31
296	Microstructure evolution of casting Mg alloy AM60B subjected to compression deformation. Transactions of Nonferrous Metals Society of China, 2008, 18, s127-s131	3.3	
295	The Recrystallization of Microelectronic Lead-Free Solders. <i>Materials Transactions</i> , 2008 , 49, 2298-2302	1.3	1
294	Effect of Initial Grain Size on Dynamically Recrystallized Grain Size in AZ31 Magnesium Alloy. <i>Materials Transactions</i> , 2008 , 49, 1979-1982	1.3	25
293	Microstructure and mechanical properties of AZ31 magnesium alloy sheets produced by differential speed rolling. 2009 , 209, 26-31		51
292	Superplastic behavior of a fine-grained ZK60 magnesium alloy processed by high-ratio differential speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009 , 527, 322-327	5.3	51
291	Effects of Processing Parameters on the Grain Refinement of Magnesium Alloy by Equal-Channel Angular Extrusion. 2009 , 40, 415-425		64
29 0	Simulation of strain-softening behaviors in an AZ31 Mg alloy showing distinct twin-induced reorientation before a peak stress. <i>Metals and Materials International</i> , 2009 , 15, 239-248	2.4	17
289	Hot deformation behavior of a spray-deposited AZ31 magnesium alloy. 2009 , 28, 91-97		8
288	Distribution characterization of boundary misorientation angle of 7050 aluminum alloy after high-temperature compression. 2009 , 209, 754-761		34
287	Modeling the flow stress for single peak dynamic recrystallization. 2009 , 30, 1939-1943		11
286	The room temperature mechanical properties of hot-rolled AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 126-130	5.7	31
285	Grain refining and property improvement of AZ31 Mg alloy by hot rolling. <i>Transactions of Nonferrous Metals Society of China</i> , 2009 , 19, s326-s330	3.3	23
284	The effect of a multistep deep-drawing process with circular and rectangular shapes on the deformation of AZ31 magnesium sheets. 2010 , 51, 891-903		10
283	An analysis to plastic deformation behavior of AZ31 alloys during accumulative roll bonding process. <i>Journal of Materials Science</i> , 2010 , 45, 4494-4500	4.3	14
282	Mechanical properties and strain-hardening behavior of Mg alloy AZ31B-H24 thin sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 1194-1199	5.3	23
281	Changes of the texture and the mechanical properties of the extruded Mg alloy ME21 as a function of the process parameters. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 528, 342-354	5.3	60

280	The semi-solid tensile deformation behavior of wrought AZ31 magnesium alloy. 2010 , 31, 4386-4391		41	
279	Hot deformation behavior and microstructure evolution of ZK21 magnesium alloy. <i>Materials Science & Microstructure and Processing</i> , 2010 , 527, 3670-3675	5.3	30	
278	Development of novel grain morphology during hot extrusion of magnesium AZ21 alloy. <i>Acta Materialia</i> , 2010 , 58, 1495-1502	8.4	65	
277	A Study on the Flow Behavior of 42CrMo Steel under Hot Compression by Thermal Physical Simulations. 2010 , 108-111, 494-499			
276	Grain Structure Formation Ahead of Tool during Friction Stir Welding of AZ31 Magnesium Alloy. 2010 , 160, 313-318		4	
275	Influence of Dynamic Recrystallization on Tensile Properties of AZ31B Magnesium Alloy Sheet. 2010 , 25, 880-887		20	
274	Tensile flow behavior of fine-grained AZ31B magnesium alloy thin sheet at elevated temperatures. <i>Journal of Alloys and Compounds</i> , 2010 , 493, 590-594	5.7	25	
273	Relationship between mechanical properties and grain size of AZ80 at 350 °C under different strain rates. <i>Transactions of Nonferrous Metals Society of China</i> , 2010 , 20, s584-s588	3.3	2	
272	Hot working and crystallographic texture analysis of magnesium AZ alloys. 2011 , 27, 461-477		19	
271	Surface Layer Modifications in Co-Cr-Mo Biomedical Alloy from Cryogenic Burnishing. 2011 , 19, 383-388		18	
270	Shear banding phenomenon during severe plastic deformation of an AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 3806-3810	5.7	50	
269	Twinning, dynamic recovery and recrystallization in the hot rolling process of twin-roll cast AZ31B alloy. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 5571-5580	5.7	26	
268	The Production of Powder Metallurgy Hot Extruded Mg-Al-Mn-Ca Alloy with High Strength and Limited Anisotropy. 2011 , 475-480		2	
267	Cryogenic Burnishing of AZ31B Mg Alloy for Enhanced Corrosion Resistance. 2011 , 513-518		6	
266	Ultrafine-grained surface layer on MgAlan alloy produced by cryogenic burnishing for enhanced corrosion resistance. 2011 , 65, 520-523		109	
265	Processing of AZ31 magnesium alloy by a new noble severe plastic deformation method. <i>Materials Science & Microstructure and Processing</i> , 2011 , 528, 1334-1339	5.3	47	
264	Simulation and experimental investigation of FSP of AZ91 magnesium alloy. <i>Materials Science</i> & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011 , 528, 6469-647	₹ ·3	94	
263	Kinetics of recrystallization for twin-roll casting AZ31 magnesium alloy during homogenization. 2011 , 18, 570-575		5	

262	Deformation Microstructures of Mg-3Al-1Zn Magnesium Alloy Compressed Over Wide Regions of Temperature and Strain Rate. <i>Journal of Materials Engineering and Performance</i> , 2011 , 20, 133-138	6
261	Effects of SiC Particle Size and Process Parameters on the Microstructure and Hardness of AZ91/SiC Composite Layer Fabricated by FSP. <i>Journal of Materials Engineering and Performance</i> , 1.6 2011 , 20, 1554-1562	63
260	Effect of initial texture on dynamic recrystallization of AZ31 Mg alloy during hot rolling. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2011 , 528, 2941-2951	86
259	Anisotropic and tensile flow behaviors of Mg alloy AZ31B thin sheet in H24 condition at elevated temperatures. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2011 , 528, 2522-2531	8
258	Flow behavior and microstructure evolution of a P/M TiAl alloy during high temperature deformation. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2011 , 528, 6754-6763	52
257	Influence of extrusion parameters on grain size and texture distributions of AZ31 alloy. 2011 , 211, 1203-1209	9 40
256	The effect of deformation temperature on the microstructure evolution of Inconel 625 superalloy. 2011 , 414, 440-450	60
255	The microstructure evolution and nucleation mechanisms of dynamic recrystallization in hot-deformed Inconel 625 superalloy. 2011 , 32, 696-705	173
254	Effect of [precipitates on the cavitation behavior of wrought AZ31 magnesium alloy. 2011 , 32, 2181-2190	27
253	The texture and anisotropy of hot extruded magnesium alloys fabricated via rapid solidification powder metallurgy. 2011 , 32, 4590-4597	36
252	On the feasibility of friction spot joining in magnesium/fiber-reinforced polymer composite hybrid structures. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2011 , 528, 3841-3848	185
251	Processing of Wrought Magnesium Alloys to Produce Small Tubes for Biomedical Applications: Investigation about the Extrusion Process by a Laboratory Test Rig. 2011 , 491, 75-80	
250	Temperature and Strain Rate Dependence of Deformation Microstructures of AZ31 Magnesium Alloy under Uniaxial Tension. 2011 , 217-218, 93-96	2
249	Dynamic recrystallization of TiBAlūZrūMoūV in Iforging process. <i>Transactions of Nonferrous Metals Society of China</i> , 2012 , 22, 761-767	16
248	Evolution of Microstructure and Texture During Uniaxial Compression of Cast AZ31Mg Alloy at Elevated Temperatures. 2012 , 1, 297-308	1
247	Dynamic recrystallization in magnesium alloys. 2012 , 186-225	14
246	The influence of initial microstructure and temperature on the deformation behavior of AZ91 magnesium alloy. 2012 , 42, 411-417	17
245	The origin of microstructure inhomogeneity in MgBAlfIZn processed by severe plastic deformation. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure 5.3 and Processing,</i> 2012, 551, 128-132	12

(2013-2012)

244	The prediction of hot deformation behavior in Fell1Mnll.5Sill.5Al transformation-twinning induced plasticity steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 554, 72-78	5.3	57
243	Grain refined and basal textured surface produced by burnishing for improved corrosion performance of AZ31B Mg alloy. 2012 , 57, 192-201		183
242	Effects of Direct Extrusion Process on Microstructure, Texture Evolution and Yield Strength of Magnesium Alloy AZ31. 2012 , 349-354		1
241	Effect of initial microstructure on the dynamic recrystallization behavior of MgtdMIr alloy. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 519-525	5.3	34
240	On the recrystallization behavior of homogenized AZ81 magnesium alloy: The effect of mechanical twins and [precipitates. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 558, 44-51	5.3	68
239	Simulation of Friction Stir Processing with Internally Cooled Tool. 2012 , 445, 560-565		3
238	Temperature and Texture Development during High Speed Friction Stir Processing of Magnesium AZ31. 2012 , 14, 762-771		6
237	The Application of Shear Compression Specimen to Study Shear Deformation Behavior of AZ31 Mg Alloy at High Temperatures and Quasi-Static Regime. 2012 , 52, 629-636		5
236	An investigation to the hot deformation characteristics of AZ31 alloy through continuous cooling compression testing method. 2012 , 36, 470-476		12
235	Artificial neural network modeling to predict the high temperature flow behavior of an AZ81 magnesium alloy. 2012 , 39, 390-396		105
235		5-3	105
	magnesium alloy. 2012 , 39, 390-396 Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Materials & Mate</i>	5·3 5·3	
234	magnesium alloy. 2012, 39, 390-396 Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 535, 68-75 Effect of prior strain on continuous recrystallization in AZ31 magnesium alloy after hot deformation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure</i>		39
234	Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Materials Science & Materials Science & Microstructure and Processing</i> , 2012 , 535, 68-75 Effect of prior strain on continuous recrystallization in AZ31 magnesium alloy after hot deformation. <i>Materials Science & Microstructure and Processing</i> , 2012 , 535, 209-215 Hot deformation characteristics of as-cast and homogenized AZ61 Mg alloys under compression. <i>Materials Science & Microstructure and Processing</i> , 2012 , 535, 209-215	5.3	39
234233232	Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2012 , 535, 68-75 Effect of prior strain on continuous recrystallization in AZ31 magnesium alloy after hot deformation. <i>Materials Science & Microstructure and Processing</i> , 2012 , 535, 209-215 Hot deformation characteristics of as-cast and homogenized AZ61 Mg alloys under compression. <i>Materials Science & Microstructure and Processing</i> , 2012 , 550, 273-278 Effect of pass strain and temperature on recrystallisation in magnesium alloy AZ31 after	5·3 5·3	39 25 17
234233232231	Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Materials Science & Materials Science & Microstructure and Processing, 2012</i> , 535, 68-75 Effect of prior strain on continuous recrystallization in AZ31 magnesium alloy after hot deformation. <i>Materials Science & Microstructure and Processing, 2012</i> , 535, 209-215 Hot deformation characteristics of as-cast and homogenized AZ61 Mg alloys under compression. <i>Materials Science & Microstructure and Processing, 2012</i> , 550, 273-278 Effect of pass strain and temperature on recrystallisation in magnesium alloy AZ31 after interrupted cold deformation. <i>Journal of Materials Science, 2012</i> , 47, 2823-2830 Effect of Ca-addition on dynamic recrystallization of MgIn alloy during hot deformation. <i>Materials Science & Microstructure and Processing, 2013, Science & Microstructure and Processing, 2013, Microstructure and Processing, 2013, Microstructure and Processing, 2013,</i>	5·3 5·3 4·3	39 25 17 37
234233232231230	Dynamic behavior of extruded AZ61 Mg alloy during hot compression. <i>Materials Science & Materials Science & Materials Science & Microstructure and Processing</i> , 2012, 535, 68-75 Effect of prior strain on continuous recrystallization in AZ31 magnesium alloy after hot deformation. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2012, 535, 209-215 Hot deformation characteristics of as-cast and homogenized AZ61 Mg alloys under compression. <i>Materials Science & Materials Science & Microstructure and Processing</i> , 2012, 550, 273-278 Effect of pass strain and temperature on recrystallisation in magnesium alloy AZ31 after interrupted cold deformation. <i>Journal of Materials Science</i> , 2012, 47, 2823-2830 Effect of Ca-addition on dynamic recrystallization of Mg\overline{\textit{M}}n alloy during hot deformation. <i>Materials Science & Microstructure and Processing</i> , 2013, 580, 217-226	5·3 5·3 4·3	39 25 17 37 33

226	Hot compression behavior and deformation microstructure of Mg-6Zn-1Al-0.3Mn magnesium alloy. Transactions of Nonferrous Metals Society of China, 2013 , 23, 2560-2567	3.3	11
225	Effect of dynamic precipitation and twinning on dynamic recrystallization of micro-alloyed MgAlta alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 587, 27-35	5.3	45
224	Strain-dependent constitutive analysis of extruded AZ61 Mg alloy under hot compression. <i>Materials Science & Microstructure and Processing</i> , 2013 , 565, 1-8	5.3	28
223	Effect of cryogenic burnishing on surface integrity modifications of Co-Cr-Mo biomedical alloy. 2013 , 101, 139-52		22
222	Deformation behavior of a statically recrystallized MgInIMM alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 582, 203-210	5.3	6
221	Enhancement of the microstructure and mechanical properties in as-forged MgBAlD.5Zn alloy using T5 heat treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 586, 306-312	5.3	10
220	Flow softening, twinning and dynamic recrystallization in AZ31 magnesium. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 583, 242-253	5.3	62
219	Deformation behaviour and dynamic recrystallization of AZ61 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2013 , 580, 262-269	5.7	91
218	Hot deformation behaviors of phase containing TiB3AlBNbI.4W-based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 577, 210-217	5.3	22
217	A new smoothed particle hydrodynamics non-Newtonian model for friction stir welding: Process modeling and simulation of microstructure evolution in a magnesium alloy. <i>International Journal of Plasticity</i> , 2013 , 48, 189-204	7.6	73
216	Effect of temperature and strain rate on the deformation behavior and microstructure of a homogenized AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2013 , 579, 26-34	5.3	37
215	High temperature deformation and microstructural instability in AZ31 magnesium alloy. <i>Materials Science & Microstructure and Processing</i> , 2013 , 570, 135-148	5.3	32
214	Hot compressive flow stress modeling of homogenized AZ61 Mg alloy using strain-dependent constitutive equations. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 574, 17-24	5.3	29
213	Microstructure and texture of coarse-grained Mgជ្រdប្រាd៧r alloy after hot compression. 2013 , 44, 521-527		77
212	Hot deformation behavior and processing map of as-cast AZ61 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 528-533	5.3	55
211	A new approach coupled with the cellular automata to simulate the microstructural evolution of AM80 magnesium alloy. 2013 ,		
210	Deformation Behavior of AZ31 Magnesium Alloy at Elevated Temperature. 2013 , 652-654, 1976-1979		
209	Hot Deformation Behavior and Microstructural Evolution of Mg-Nd-Zn-Zr Magnesium Alloy. 2013 , 747-748, 320-326		1

Metallurgical and Engineering Challenges in Magnesium Extrusion. 2013, 585, 3-10 208 2 Deformation Behavior and Texture Formation in AZ80 Magnesium Alloy during Uniaxial 207 1.3 10 Compression Deformation at High Temperatures. Materials Transactions, 2013, 54, 192-198 Dynamic recrystallization kinetics of as-cast AZ91D alloy. Transactions of Nonferrous Metals Society 206 3.3 14 of China, 2014, 24, 1683-1689 Effect of strain-induced precipitation on dynamic recrystallization in MgAlBn alloys. Materials Science & Direction A: Structural Materials: Properties, Microstructure and Processing, 2014, 205 5.3 75 616, 252-259 Hot compression behavior of the 1 wt% calcium containing MgBAlD.5Zn (AZ80) alloy fabricated using electromagnetic casting technology. Materials Science & Diplomagnetic Casting technology. Materials Science & Diplomagnetic Casting technology. 204 5.3 14 Materials: Properties, Microstructure and Processing, 2014, 615, 222-230 The Impact of Novel Material Processing Methods on Component Quality, Life and Performance. 203 5 2014, 22, 33-44 Constitutive description of high temperature flow behavior of Sanicro-28 super-austenitic stainless steel. Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and 202 5.3 54 Processing, 2014, 589, 76-82 Texture evolution during annealing of AZ31 Mg alloy rolled sheet and its effect on ductility. Materials Science & Degineering A: Structural Materials: Properties, Microstructure and Processing 201 5.3 19 , **2014**, 599, 1-8 Mechanical Properties and Microstructure of AZ31B Magnesium Alloy Processed by I-ECAP. 2014, 200 29 45, 1609-1620 Hot workability of nanocrystalline AZ91 magnesium alloy. Journal of Alloys and Compounds, 2014, 199 5.7 19 Metadynamic recrystallization behavior of AZ61 magnesium alloy. 2014, 57, 487-493 198 34 Prediction of flow stress and textures of AZ31 magnesium alloy at elevated temperature. **2014**, 94, 3353-3367 \pm 197 Development of novel heating tool friction stir spot welding (HT-FSSW) for AZ31 magnesium alloy. 196 10 2014, 19, 369-375 Study on the dynamic recrystallization behavior of Ti-alloy Ti\u00ed00V\u00dbFe\u00BV in \u00a7brocessing via experiment and simulation. Materials Science & Engineering A: Structural Materials: Properties, 195 5.3 47 Microstructure and Processing, **2014**, 619, 26-34 The effects of detwinning on the mechanical properties of AZ31B magnesium alloy with different strain rates at 423K. Materials Science & Engineering A: Structural Materials: Properties, 6 194 5.3 Microstructure and Processing, 2014, 612, 423-430 Hot deformation behavior and workability characteristics of bimodal size SiCp/AZ91 magnesium 68 193 matrix composite with processing map. 2014, 64, 177-184 Modeling of the flow stress behavior and microstructural evolution during hot deformation of 8.8 192 9 MgBAlfl.5CaD.2Sr magnesium alloy. Journal of Magnesium and Alloys, 2014, 2, 133-139 Effects of Compression-Pass on Microstructure and Mechanical Properties of AZ80 Alloy. Journal of 1.6 191 Materials Engineering and Performance, 2014, 23, 3407-3411

190	Constitutive analysis of MgAlan magnesium alloys during hot deformation. 2014, 77, 80-85		110
189	Effect of rolling speed on microstructure and mechanical properties of AZ31 Mg alloys rolled with a wide thickness reduction range. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 619, 66-72	5.3	20
188	Intergranular stress corrosion crack propagation in hot-rolled AZ31 Mg alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 602, 58-67	5.3	17
187	Influence of rolling speed on microstructure and mechanical properties of AZ31 Mg alloy rolled by large strain hot rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2014 , 607, 383-389	5.3	46
186	Mixed grain structure and mechanical property anisotropy of AZ40 magnesium alloy bar with diameter of 160 mm. <i>Transactions of Nonferrous Metals Society of China</i> , 2015 , 25, 3944-3952	3.3	3
185	Static Recrystallization Characteristic of Low Temperature Rolled AZ31 Magnesium Alloy during Annealing. 2015 , 828-829, 239-243		O
184	Recrystallization Behavior of the Magnesium Alloy ZE20. 2015 , 177-182		1
183	. 2015,		1
182	Texture evolution of AZ31 magnesium alloy sheets during warm rolling. <i>Journal of Alloys and Compounds</i> , 2015 , 645, 70-77	5.7	38
181	Experimental investigation on deep drawing behaviour of AZ31 alloy sheet under crank press. 2015 , 19, S1-41-S1-44		
180	Effect of the extrusion ratio on the mechanical properties of as-forged Mg-8Al-0.5Zn alloy. 2015 , 2, 27	5-280	9
179	A novel combined severe plastic deformation method for producing thin-walled ultrafine grained cylindrical tubes. 2015 , 143, 167-171		31
178	Effects of Cr Content on the Hot Compression Deformation Behavior of Ti5Mo5V3Al-xCr Alloys. Journal of Materials Engineering and Performance, 2015 , 24, 67-79	1.6	4
177	The dynamic recrystallization evolution and kinetics of Ni🛮 8.3 Cr 🗗 .4 Co 🗷 .9 W 🖺 Mo 🗗 .19 Al 🛈 .16 Ti superalloy during hot deformation. <i>Journal of Materials Research</i> , 2015 , 30, 1029-1041	2.5	27
176	The Microstructure Evolution of a High Zr-Containing WE Magnesium Alloy Through Isothermal Semi-Solid Treatment. 2015 , 17, 1623-1630		6
175	Influence of deformation rate on microstructure, texture and mechanical properties of indirect-extruded MgInIIa alloy. <i>Materials Characterization</i> , 2015 , 104, 66-72	3.9	52
174	Microstructures and mechanical properties of MgAlCa alloys affected by Ca/Al ratio. <i>Materials Science & Microstructure and Processing</i> , 2015 , 636, 279-288	5.3	82
173	Microstructure evolution during magnetic pulse welding of dissimilar aluminium and magnesium alloys. 2015 , 19, 14-21		31

(2016-2015)

172	Plastic flow behavior, microstructure, and corrosion behavior of AZ61 Mg alloy during hot compression deformation. 2015 , 18, 167-174		11
171	Hot deformation and processing map of an as-extruded MgZnMnN alloy containing I and W phases. <i>Materials and Design</i> , 2015 , 87, 245-255	8.1	57
170	Rate controlling mechanisms during hot deformation of MgBGdflZn magnesium alloy: Dislocation glide and climb, dynamic recrystallization, and mechanical twinning. 2015 , 68, 228-231		90
169	EBSD characterization of repetitive grain refinement in AZ31 magnesium alloy. <i>Materials Chemistry and Physics</i> , 2015 , 149-150, 339-343	4.4	19
168	Recrystallization and microstructure evolution of the rolled MgBAlfIZn alloy strips under electropulsing treatment. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 229-235	5.7	33
167	Constitutive behavior and microstructure evolution of the as-extruded AE21 magnesium alloy during hot compression testing. <i>Journal of Alloys and Compounds</i> , 2015 , 622, 121-129	5.7	36
166	Gas Metal Arc Welding Using Novel CaO-Added Mg Alloy Filler Wire. <i>Metals</i> , 2016 , 6, 155	2.3	Ο
165	Modeling of dynamic recrystallization behavior of 21Cr-11Ni-N-RE lean austenitic heat-resistant steel during hot deformation. <i>Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 663, 141-150	5.3	29
164	Static recrystallization behavior of magnesium AZ31 alloy subjected to high speed rolling. <i>Materials Science & Microstructure and Processing</i> , 2016 , 662, 412-425	5.3	31
163	Synthesis of nanocrystalline AZ31 magnesium alloy with titanium addition by mechanical milling. <i>Materials Characterization</i> , 2016 , 113, 108-116	3.9	22
162	Correlation of static recrystallization and texture weakening of AZ31 magnesium alloy sheets subjected to high speed rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 674, 343-360	5.3	15
161	Dynamic recrystallization mechanisms and twining evolution during hot deformation of Inconel 718. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 678, 137-152	5.3	108
160	Characterization of the microstructure, texture and mechanical properties of 7075 aluminum alloy in early stage of severe plastic deformation. <i>Materials Characterization</i> , 2016 , 119, 137-147	3.9	55
159	Hot deformation behavior and dynamic recrystallization kinetics of AZ61 and AZ61 + Sr magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016 , 4, 104-114	8.8	40
158	Experimental and numerical study on the ECARed magnesium AZ31 alloy. 2016, 17, 110		3
157	Approving Restoration Mechanism in 7075 Aluminum Alloy through Constitutive Flow Behavior Modeling. 2016 , 18, 989-1000		18
156	Dynamic Recrystallization Behavior of Bimodal Size SiCp-Reinforced Mg Matrix Composite during Hot Deformation. 2016 , 29, 527-537		12
155	Material model for dynamic recrystallization of MgBAlD.5Zn alloy under uni-axial compressive deformation with variation of forming temperatures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 651, 1010-1017	5.3	8

154	Ultrasonic Spot Welding of a Rare-Earth Containing ZEK100 Magnesium Alloy: Effect of Welding Energy. 2016 , 47, 1686-1697		17
153	Gas forming of an AZ31 magnesium alloy at elevated strain rates. 2016 , 83, 861-872		18
152	High temperature deformation behavior and microstructural evolutions of a high Zr containing WE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2016 , 669, 108-116	5.7	33
151	Dynamic recrystallization mechanisms during high speed rolling of MgBAldZn alloy sheets. 2016 , 113, 198-201		44
150	Positive influence of hydrogen on the hot workability and dynamic recrystallization of a ETiAl based alloy. <i>Materials Science & ETiAl and Processing</i> , 2016 , 656, 151-164	5.3	24
149	Experiment and crystal plasticity analysis on plastic deformation of AZ31B Mg alloy sheet under intermediate temperatures: How deformation mechanisms evolve. <i>International Journal of Plasticity</i> , 2016 , 79, 19-47	7.6	62
148	An investigation of normal and submerged condition on microstructural and tribological properties of friction stir processed AZ91-D magnesium alloy. 2017 , 56, 94-103		9
147	Investigation of nucleation processes during dynamic recrystallization of ice using cryo-EBSD. 2017 , 375,		13
146	The hot deformation behavior and microstructure evolution of HA/Mg-3Zn-0.8Zr composites for biomedical application. 2017 , 77, 690-697		17
145	A numerical model for Wire integrity prediction in Friction Stir Extrusion of magnesium alloys. 2017 , 247, 1-10		18
144	Modeling and simulation of dynamic recrystallization behaviors of magnesium alloy AZ31B using cellular automaton method. 2017 , 136, 163-172		50
143	Effect of sample orientation and initial microstructures on the dynamic recrystallization of a Magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 691, 150-154	5.3	19
142	Room temperature superelastic responses of NiTi alloy treated by two distinct thermomechanical processing schemes. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 684, 303-311	5.3	17
141	Dynamic nano precipitation behavior of as-cast Mg-4Li-4Zn-Y alloy during high temperature deformation. <i>Materials Science & Damp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 110-117	5.3	13
140	Microstructure and superior mechanical properties of a multi-axially forged WE magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2017 , 693, 406-413	5.7	47
139	A review on the effect of rare-earth elements on texture evolution during processing of magnesium alloys. <i>Journal of Materials Science</i> , 2017 , 52, 1-29	4.3	212
138	Hot deformation behavior of AZ40 magnesium alloy at elevated temperatures. 2017 , 32, 1470-1475		3
137	Effect of 300Hz/70V pulse current processing on properties of AZ31 magnesium alloy. 2017 , 100, 0120	023	

136	Microstructure evolution of AZ91 alloy during hot extrusion process with various ram velocity. 2018 , 150, 136-143		16	
135	Unraveling Recrystallization Mechanisms Governing Texture Development from Rare-Earth Element Additions to Magnesium. 2018 , 49, 1809-1829		34	
134	Controlling the microstructure and improving the tensile properties of extruded Mg-Sn-Zn alloy through Al addition. <i>Journal of Alloys and Compounds</i> , 2018 , 751, 1-11	5.7	28	
133	Utilization of hot deformation to trigger strain induced boundary migration (SIBM) in Ni-base superalloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 720, 189-202	5.3	10	
132	Effect of various Ca content on microstructure and fracture toughness of extruded Mg-2Zn alloys. Journal of Alloys and Compounds, 2018 , 742, 1019-1030	5.7	24	
131	Hot tensile deformation behavior of Mg-Zn-Al magnesium alloy tubes processed by severe plastic deformation. <i>Journal of Alloys and Compounds</i> , 2018 , 742, 442-453	5.7	24	
130	Microstructure evolution and deformation behaviors of AZ31 Mg alloy with different grain orientation during uniaxial compression. <i>Journal of Alloys and Compounds</i> , 2018 , 741, 514-526	5.7	20	
129	Deformation Behavior of a Coarse-Grained Mg-8Al-1.5Ca-0.2Sr Magnesium Alloy at Elevated Temperatures. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 905-914	1.6	2	
128	Impact of homogenization heat treatment on the high temperature deformation behavior of cast AZ31B magnesium alloy. 2018 , 254, 238-247		7	
127	Effect of temperature on microstructural evolution and subsequent enhancement of mechanical properties in a backward extruded magnesium alloy. 2018 , 95, 3155-3166		11	
126	High temperature deformation behavior of extruded AZ31B magnesium alloy. 2018 , 251, 360-368		27	
125	Formability of a wrought Mg alloy evaluated by impression testing. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 712, 140-145	5.3	15	
124	Modelling the rate and temperature-dependent behaviour and texture evolution of the Mg AZ31B alloy TRC sheets. 2018 , 98, 262-294		6	
123	A new grain orientation spread approach to analyze the dynamic recrystallization behavior of a cast-homogenized Mg-Zn-Zr alloy using electron backscattered diffraction. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 709, 285-289	5.3	73	
122	Finite Element Simulation of Rotating Compression Forming. 2018, 920, 22-27		Ο	
121	The Edge Crack, Texture Evolution, and Mechanical Properties of Mg-1Al-1Sn-Mn Alloy Sheets Prepared Using On-Line Heating Rolling. <i>Metals</i> , 2018 , 8, 860	2.3	7	
120	The modified temperature term on Johnson Cook model for AZ31 magnesium alloy. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2018 , 49, 1040-1052	0.9	9	
119	Misorientation development in continuous dynamic recrystallization of AZ31B alloy sheet and polycrystal plasticity simulation. <i>Materials Science & Description of Azonal Materials:</i> Properties, Microstructure and Processing, 2018 , 730, 438-456	5.3	22	

118	Transition of dynamic recrystallization mechanisms of as-cast AZ31 Mg alloys during hot compression. <i>International Journal of Plasticity</i> , 2018 , 111, 211-233	7.6	31
117	Microstructure evolution and mechanical performance improvement of thin ZK61 magnesium alloy sheets subjected to cumulative cold rolling and intermediate annealing. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018 , 733, 350-360	5.3	14
116	Gradient twinning microstructure generated by laser shock peening in an AZ31B magnesium alloy. <i>Applied Surface Science</i> , 2018 , 457, 342-351	6.7	34
115	Numerical Modelling of Microstructure Evolution in Friction Stir Welding (FSW). <i>Metals</i> , 2018 , 8, 183	2.3	14
114	Microstructure and texture evolution during porthole die extrusion of Mg-Al-Zn alloy. 2018 , 259, 346-3	52	26
113	Optimization of Hot Deformation Parameters and Constitutive Analysis for As-Cast Mg-5Li-3Zn-0.3Y Alloy Using Processing Maps. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 4606-4615	1.6	4
112	Hot deformation behavior and microstructural evolution of MgInlala alloys. <i>Journal of Materials Research</i> , 2018 , 33, 2817-2826	2.5	2
111	Microstructures and mechanical behavior of magnesium processed by ECAP at ice-water temperature. 2018 , 51, 185302		2
110	A unified static and dynamic recrystallization Internal State Variable (ISV) constitutive model coupled with grain size evolution for metals and mineral aggregates. <i>International Journal of Plasticity</i> , 2019 , 112, 123-157	7.6	15
109	Dynamic Recrystallization and Grain Refinement in Extruded AZ31 Rod During Hot Torsion Deformation at 150 °C. <i>Metals and Materials International</i> , 2019 , 25, 147-158	2.4	13
108	Compressive deformation behavior of dendritic Mgta(In) alloys at high temperature. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 763, 138180	5.3	7
107	Dynamic precipitation and dynamic recrystallization during hot deformation of a solutionized WE43 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138076	5.3	15
106	Dynamic recrystallization behavior of AZ31-0.5Ca magnesium alloy during warm rolling. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 762, 138085	5.3	18
105	Deformation Behavior, Microstructure and Microhardness of MgBAllZn Microtubes Processed by Isothermal Micro-Backward Extrusion. 2019 , 72, 2851-2860		2
104	Influence of dynamic recrystallization on microstructure and mechanical properties of welding zone in AlMgBi aluminum profile during porthole die extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 1803-1815	3.3	12
103	Experimental investigation of the viscoplastic behaviours and microstructure evolutions of AZ31B and Elektron 717 Mg-alloys. <i>Materials and Design</i> , 2019 , 184, 108160	8.1	5
102	Effect of Extrusion Temperature and Extrusion Ratio on Microstructure and Biodegradation Behavior of Mg-4.5Zn Binary Alloy. 2019 , 71, 4705-4714		2
101	A forming load analysis for extrusion process of AZ31 magnesium. <i>Transactions of Nonferrous Metals Society of China</i> , 2019 , 29, 741-753	3.3	14

100	Microstructural evolution and room temperature mechanical properties of AZ31 alloy processed through hot constrained compression. 2019 , 102, 2307-2317		5
99	Predicting microstructure evolution for friction stir extrusion using a cellular automaton method. 2019 , 27, 035006		7
98	Investigation into the Extrudability of a New Mg-Al-Zn-RE Alloy with Large Amounts of Alloying Elements. 2019 , 50, 3246-3264		11
97	Influence of strain rate on subsolvus dynamic and post-dynamic recrystallization kinetics of Inconel 718. <i>Acta Materialia</i> , 2019 , 174, 406-417	8.4	48
96	Compressive Deformation Behavior of AZ31Mg Alloy Containing {10🗓2} Extension Twins at Different Temperature. <i>Metals and Materials International</i> , 2019 , 25, 1170-1181	2.4	3
95	Research on microstructure and texture of as-extruded AZ31 magnesium alloy during thermal compression. <i>Journal of Materials Research</i> , 2019 , 34, 2114-2125	2.5	1
94	Dynamic precipitation and recrystallization in Mg-9wt.%Al during equal-channel angular extrusion: A comparative study to conventional aging. <i>Acta Materialia</i> , 2019 , 172, 185-199	8.4	60
93	Process-Structure-Property Modeling for Severe Plastic Deformation Processes Using Orientation Imaging Microscopy and Data-Driven Techniques. <i>Integrating Materials and Manufacturing Innovation</i> , 2019 , 8, 17-36	2.9	11
92	Influence of ECAP processing routes on microstructure mechanical properties and corrosion behavior of AZ80 Mg alloy. 2019 ,		7
91	The influence of surface pre-twinning on the friction and wear performance of an AZ31B Mg alloy. <i>Applied Surface Science</i> , 2019 , 480, 998-1007	6.7	18
90	Influence of rolling temperature on microstructural evolution and mechanical behavior of AZ31 alloy with accumulative roll bonding. <i>Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 754, 112-120	5.3	29
89	Strong and ductile AZ31 Mg alloy with a layered bimodal structure. <i>Scientific Reports</i> , 2019 , 9, 5428	4.9	16
88	Localized deform behavior of AZ31B magnesium alloy by numerical simulation. Materialwissenschaft Und Werkstofftechnik, 2019 , 50, 174-186	0.9	4
87	Interplay between the effects of deformation mechanisms and dynamic recrystallization on the failure of Mg-3Al-1Zn. <i>Acta Materialia</i> , 2019 , 168, 448-472	8.4	37
86	Characterization of Hot Deformation Behavior and Processing Maps of Mg-3Sn-2Al-1Zn-5Li Magnesium Alloy. <i>Metals</i> , 2019 , 9, 1262	2.3	11
85	Effect of refinement of grains and icosahedral phase on hot compressive deformation and processing maps of Mg-Zn-Y magnesium alloys with different volume fractions of icosahedral phase. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 181-191	9.1	21
84	Physical-based constitutive model considering the microstructure evolution during hot working of AZ80 magnesium alloy. <i>Advances in Manufacturing</i> , 2019 , 7, 30-41	2.7	11
83	Understanding the effects of recrystallization and strain induced boundary migration on B twin boundary formation in Ni-base superalloys during iterative sub-solvus annealing. <i>Materials Science</i> & Amp: Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019 , 740-741, 427-4	5.3 138	8

82	Hot deformation behavior and workability characteristic of a fine-grained Mg-8Sn-2Zn-2Al alloy with processing map. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1198-1209	9.1	39
81	Effect of pre-existing {101[2] extension twins on mechanical properties, microstructure evolution and dynamic recrystallization of AZ31 Mg alloy during uniaxial compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 744, 456-470	5.3	28
80	Constitutive modeling and inverse analysis of the flow stress evolution during high temperature compression of a new ZE20 magnesium alloy for extrusion applications. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019 , 740-741, 174-181	5.3	8
79	Stochastic modeling of discontinuous dynamic recrystallization at finite strains in hcp metals. Journal of the Mechanics and Physics of Solids, 2019 , 122, 590-612	5	13
78	Constitutive Equations, Processing Maps, and Microstructures of Pb-Mg-Al-B-0.4Y Alloy under Hot Compression. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 607-619	1.6	12
77	Numerical modeling of flow stress and grain evolution of an Mg AZ31B alloy based on hot compression tests. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020 , 42, 1	2	2
76	Constitutive analysis, twinning, recrystallization, and crack in fine-grained ZK61 Mg alloy during high strain rate compression over a wide range of temperatures. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 771, 138649	5.3	28
75	Preferential grain growth and textural evolution of AZ31B Mg alloy during annealing after isothermal compression at 400 LC. <i>Materials Characterization</i> , 2020 , 169, 110566	3.9	2
74	Influence of heating mode on orange peel patterns in warm incremental forming of magnesium alloy. <i>Procedia Manufacturing</i> , 2020 , 50, 5-10	1.5	4
73	Microstructure evolution and mechanical property of Mg-3Al alloys with addition of Ca and Gd during rolling and annealing process. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 769-779	8.8	14
72	Microstructural and textural investigation of an MgDy alloy after hot plane strain compression. Journal of Magnesium and Alloys, 2020 , 8, 1198-1207	8.8	11
71	Effect of Ce-base mischmetal addition on the microstructure and mechanical properties of hot-rolled ZK60 alloy. <i>Journal of Magnesium and Alloys</i> , 2020 , 9, 995-995	8.8	7
70	Effects of deformation parameters on microstructure and texture of MgIntle alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2020 , 30, 2658-2668	3.3	5
69	The dynamic recrystallization and mechanical property responses during hot screw rolling on pre-aged ZM61 magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2020 , 798, 140126	5-3	9
68	Warm Tensile Deformation and Fracture Behavior of AZ31 Magnesium Alloy Sheets Processed by Constrained Groove Pressing. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 7662-7677	1.6	2
67	Effect of Dynamic Recrystallization on Grain Refinement during Interactive Alternating Forward Extrusion of AZ31B Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020 , 29, 2748	-2756	1
66	The modified temperature term on Johnson-Cook constitutive model of AZ31 magnesium alloy with {0002} texture. <i>Journal of Magnesium and Alloys</i> , 2020 , 8, 172-183	8.8	22
65	Interaction between texture evolution and dynamic recrystallization of extruded AZ80 magnesium alloy during hot deformation. <i>Materials Science & Engineering A: Structural Materials:</i> Properties, Microstructure and Processing, 2020, 788, 139537	5.3	19

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64	Microstructure, hot deformation behavior, and textural evolution of MgBwt%ZnIIwt%CaII.5wt%Sr Alloy. <i>Journal of Materials Science</i> , 2020 , 55, 12434-12447	4.3	5
63	A critical assessment of experimental investigation of dynamic recrystallization of metallic materials. <i>Materials and Design</i> , 2020 , 193, 108873	8.1	24
62	Deformation Mechanisms and Evolution of Second Phase Particles of Mgបበdជdጀr Alloy During Plane Strain Compression. <i>Metals and Materials International</i> , 2020 , 1	2.4	O
61	Refining the microstructure and modifying the texture of the AZ80 alloy cylindrical tube by the rotating backward extrusion with different rotating revolutions. <i>Journal of Alloys and Compounds</i> , 2020 , 836, 155442	5.7	10
60	Variation in dynamic deformation behavior and resultant yield asymmetry of AZ80 alloy with extrusion temperature. <i>Journal of Materials Science and Technology</i> , 2020 , 46, 225-236	9.1	23
59	Effect of vibration on machining and mechanical properties of AZ91 alloy during FSP: modeling and experiments. <i>International Journal of Material Forming</i> , 2021 , 14, 623-640	2	6
58	Characterization of continuous dynamic recrystallization in WE43 magnesium alloy. <i>Materials Chemistry and Physics</i> , 2021 , 257, 123726	4.4	5
57	Effect of extrusion ratio and temperature on microstructures and tensile properties of extruded Mg-Gd-Y-Mn-Sc alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021 , 800, 140330	5.3	10
56	Influence of undissolved second-phase particles on dynamic recrystallization behavior of MgIISnIIAlIIZn alloy during low- and high-temperature extrusions. <i>Journal of Materials Science and Technology</i> , 2021 , 71, 87-97	9.1	18
55	Microstructure and texture evolutions in AZ80A magnesium alloy during high-temperature compression. <i>Materials Research Express</i> , 2021 , 8, 016535	1.7	1
54	Dynamic recrystallization of a wrought magnesium alloy: Grain size and texture maps and their application for mechanical behavior predictions. <i>Materials and Design</i> , 2021 , 202, 109562	8.1	8
53	Role of Grain Refinement Mechanism on Microstructure and Performance in AZ31B Alloy During Interactive Alternating Forward Extrusion (AFE) Process. <i>Metals and Materials International</i> , 1	2.4	O
52	Effects of extrusion speed of continuous extrusion with double billets on welding performance of 6063 Al alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2021 , 31, 1561-1571	3.3	4
51	Modelling dynamic recrystallisation in magnesium alloy AZ31. <i>International Journal of Plasticity</i> , 2021 , 142, 102995	7.6	8
50	Influence of strain rate and crystallographic orientation on dynamic recrystallization of pure Zn during room-temperature compression. <i>Journal of Materials Science and Technology</i> , 2021 , 86, 237-250	9.1	7
49	Experimental investigation on the mechanical properties and strain rate sensitivity of MgAlCaMn alloy under various strain rates. <i>Materials Science & amp; Engineering A: Structural Materials: Properties, Microstructure and Processing,</i> 2021 , 826, 141997	5.3	4
48	Characterization of microstructure and texture of binary Mg-Ce alloy processed by equal channel angular pressing. <i>Materials Characterization</i> , 2021 , 181, 111454	3.9	1
47	Modeling of Dynamic Recrystallization Behavior of As-Extruded AM50 Magnesium Alloy during Hot Compression by a Cellular Automaton Method. <i>Metals</i> , 2021 , 11, 75	2.3	1

46	Precipitation Formation and Grain Refinement of Mg-Al-Sn Alloy during Hot Deformation. 549-554		1
45	Effect of Precipitation on Dynamic Recrystallized Grain Size in a Magnesium Alloy. 2013 , 307-312		2
44	Post Forming Analysis and In Vitro Biological Characterization of AZ31B Processed by Incremental Forming and Coated With Electrospun Polycaprolactone. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2021 , 143,	3.3	2
43	The Effect of Extrusion Temperatures on Microstructure and Mechanical Properties of Mg-1.3Zn-0.5Ca (wt.%) Alloys. <i>Crystals</i> , 2021 , 11, 1228	2.3	O
42	Hot deformation behavior and processing map of AZ61/SiC composites. <i>Materials Today Communications</i> , 2021 , 29, 102861	2.5	2
41	Cryogenic Burnishing of AZ31B Mg Alloy for Enhanced Corrosion Resistance. 2011 , 513-518		
40	The Production of Powder Metallurgy Hot Extruded Mg-Al-Mn-Ca Alloy with High Strength and Limited Anisotropy. 2011 , 475-480		
39	Effects of Direct Extrusion Process on Microstructure, Texture Evolution and Yield Strength of Magnesium Alloy AZ31. 2012 , 349-354		
38	Effects of Friction Stir Process on the Tensile Properties of AZ61 Magnesium Alloy at Room Temperature to 200 °C. 2012 , 525-529		
37	Precipitate Formation and Grain Refinement of MG-AL-SN Alloy during Hot Deformation. 2012 , 549-55	4	
36	Effects of Friction Stir Process on the Tensile Properties of AZ61 Magnesium Alloy at Room Temperature to 200°C. 525-529		
35	Effect of Precipitation on Dynamic Recrystallized Grain Size in a Magnesium Alloy. 305-312		
34	Deformation Behavior and Dynamic Recrystallization of Micro-Alloyed Mg-Al-Ca Alloys During High Temperature Deformation. 2014 , 143-147		
33	Deformation Behavior and Dynamic Recrystallization of Micro-Alloyed Mg-Al-Ca Alloys during High Temperature Deformation. 143-147		
32	Recrystallization Behavior of the Magnesium Alloy ZE20. 2015 , 177-182		
31	Dynamic precipitation and enhanced mechanical properties of ZK60 magnesium alloy achieved by low temperature extrusion. <i>Materials Science & Discourse in Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 829, 142143	5.3	4
30	Dynamic recrystallisation and modelling of microstructural evolution of high-titanium-content 6061 aluminium alloy. <i>International Journal of Materials Research</i> , 2020 , 111, 316-324	0.5	
29	Validating the potential of centralized holes to enhance the compressive response of Mg-, Al-, Fe-Based commercial alloys. <i>MRS Communications</i> , 1	2.7	

28	Hot Compression Behavior of Mgfl4LifAlflCa Alloy. Materials Transactions, 2020, 61, 2101-2106	1.3	1
27	Hot deformation of cast AZ31 and AZ80 magnesium alloys Influence of Al content on microstructure and texture development. <i>Journal of Alloys and Compounds</i> , 2021 , 897, 162876	5.7	4
26	Microstructure and Hot Deformation Behaviour of Twin-Roll Cast AZ31 Magnesium Wire. <i>Crystals</i> , 2022 , 12, 173	2.3	
25	Changes in the Properties in Bimodal Mg Alloy Bars Obtained for Various Deformation Patterns in the RSR Rolling Process <i>Materials</i> , 2022 , 15,	3.5	1
24	A review of hot deformation behavior and constitutive models to predict flow stress of high-entropy alloys. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163964	5.7	15
23	Enhancing strength and ductility in back extruded WE71 magnesium alloy cylindrical parts by introduction of multi-direction forging process. <i>Journal of Rare Earths</i> , 2022 ,	3.7	O
22	Experimental and Simulation Analysis of Warm Shearing Process Parameters for Rolled AZ31B Magnesium Alloy Plate. <i>Crystals</i> , 2022 , 12, 661	2.3	O
21	Deformation behavior, microstructure evolution, and dynamic recrystallization mechanism of an AZ31 Mg alloy under high-throughput gradient thermal compression. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 847, 143338	5.3	1
20	An Investigation of Constitutive Modeling and 3D Processing Maps of Mg/HA Composites for Orthopedic Applications. <i>Journal of Materials Research and Technology</i> , 2022 ,	5.5	O
19	Influence of rolling deformation on microstructures and mechanical properties of laminated Mg/Zr composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022 , 849, 143460	5.3	
18	Influence of Initial Microstructure on the Hot Deformation Behavior of AZ80 Magnesium Alloy. <i>Journal of Materials Engineering and Performance</i> ,	1.6	
17	Effect of Pre-stretch Strain at High Temperatures on the Formability of AZ31 Magnesium Alloy Sheets.		O
16	Recrystallization behavior and texture evolution on extrusion connection process of Mg/Al alloys thickness-oriented bonding sheet. 2022 , 33, 104350		О
15	Accumulative extrusion bonding of Mg-Mn-Ca/FA+GNP hybrid biocomposite: On microstructure evaluation, mechanical and corrosion properties. 2022 , 33, 104426		O
14	Zn D .8Mn alloy for degradable structural applications: Hot compression behaviors, four dynamic recrystallization mechanisms, and better elevated-temperature strength. 2023 , 137, 159-175		0
13	Effect of Process Temperature on the Texture Evolution and Mechanical Properties of Rolled and Extruded AZ31 Flat Products. 2022 , 12, 1307		1
12	Enhanced Formability of Magnesium Alloy Rolled Plates by 101 ¹² Tensile Twinning and Recrystallization. 2022 , 15, 6253		O
11	Effects of hot-compression deformation conditions on microstructures and mechanical properties of pure magnesium. 2022 , 72, 541-546		О

10	Novel insights on different treatment of magnesium alloys: A critical review. 2022 , e11712	3
9	Ameliorating the edge cracking behavior of Mg-Mn-Al alloy sheets prepared by multi-pass online heating rolling. 2023 , 85, 977-986	O
8	A pseudo thermo-mechanical model linking process parameters to microstructural evolution in multilayer additive friction stir deposition of magnesium alloy. 2022 , 224, 111412	1
7	Hot Compression Processing Map and Microstructure Evolution of a MgBnAlZnMn Alloy. 2023, 211-217	О
6	Evolution of microstructure and texture of AZ80 magnesium alloy under hot torsion with constant decreasing temperature rate. 2023 ,	О
5	Dynamic Recrystallization Mechanism and Texture Evolution during Interactive Alternating Extruded Magnesium Alloy.	O
4	Effect of welding speed on the microstructure and texture development in the individual weld zone of friction stir welded DP780 steel. 2023 , 23, 4976-4989	0
3	Thermomechanical Response of Additively Manufactured Inconel 718 during Hot Torsion Tests.	O
2	Evaluation of the Effects of SiCp on Hot Deformation Behavior and Microstructure of AZ61 Magnesium Alloy.	О
1	Microstructure evolution and corrosion properties of ECAPed MgPb-9.2Al-0.8B alloys. 2023 , 24, 6048-6064	О