

Equal channel angular pressing of magnesium alloy AZ31

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Hot Compressive Deformation of Rheocast AZ31 Magnesium Alloy. Solid State Phenomena, 2006, 116-117, 742-745.	0.3	1
2	Microstructures and Mechanical Properties of AZ61 Magnesium Alloy after Processing with High Presser Torsion. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 2007, 71, 213-217.	0.4	3
3	The processing of difficult-to-work alloys by ECAP with an emphasis on magnesium alloys. Acta Materialia, 2007, 55, 4769-4779.	7.9	179
4	Finite element analysis of severe deformation in Mg-3Al-1Zn sheets through differential-speed rolling with a high speed ratio. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 570-574.	5.6	83
5	Microstructure and mechanical properties of Mg-Al-Zn alloy sheets severely deformed by asymmetrical rolling. Scripta Materialia, 2007, 56, 309-312.	5.2	213
6	Finite element analysis of the effect of back pressure during equal channel angular pressing. Journal of Materials Science, 2007, 42, 1491-1500.	3.7	22
7	Fatigue-Property Enhancement of Magnesium Alloy, AZ31B, through Equal-Channel-Angular Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2283-2289.	2.2	24
8	Microstructural and mechanical properties evolution of magnesium AZ61 alloy processed through a combination of extrusion and thermomechanical processes. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 486, 528-533.	5.6	52
9	Developing grain refinement and superplasticity in a magnesium alloy processed by high-pressure torsion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 488, 117-124.	5.6	170
10	Developing superplasticity in a magnesium AZ31 alloy by ECAP. Journal of Materials Science, 2008, 43, 7366-7371.	3.7	89
11	Enhanced Superplasticity in a Magnesium Alloy Processed by Equal-Channel Angular Pressing with a Back-Pressure. Advanced Engineering Materials, 2008, 10, 429-433.	3.5	65
12	Effect of grain refinement of magnesium alloy AZ31 by severe plastic deformation on material characteristics. Journal of Materials Processing Technology, 2008, 201, 436-440.	6.3	95
13	Microstructure and properties of pure titanium processed by equal-channel angular pressing at room temperature. Scripta Materialia, 2008, 59, 542-545.	5.2	155
14	Improvement of strength of magnesium alloy processed by equal channel angular extrusion. Scripta Materialia, 2008, 59, 1006-1009.	5.2	145
15	Microstructural and Mechanical Characteristics of AZ61 Magnesium Alloy Processed by High-Pressure Torsion. Materials Transactions, 2008, 49, 76-83.	1.2	112
16	Effect of the electropulsing on mechanical properties and microstructure of an ECAPed AZ31 Mg alloy. Journal of Materials Research, 2008, 23, 1570-1577.	2.6	36
17	Mechanical Properties of AZ91 Studied by Indentation Tests. , 0, , .		0
18	Factors Influencing Ductility in Ultrafine-Grained Metals Processed by Equal-Channel Angular Pressing. Materials Science Forum, 0, 633-634, 341-352.	0.3	2

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19	The nature of grain refinement in equal-channel angular pressing: a comparison of representative fcc and hcp metals. <i>International Journal of Materials Research</i> , 2009, 100, 1638-1646.	0.3	25
20	The effect of back pressure on mechanical properties of an Mg-3 wt.% Al-1 wt.% Zn alloy with single pass equal channel angular pressing. <i>International Journal of Materials Research</i> , 2009, 100, 1686-1690.	0.3	11
21	Strategies for achieving high strain rate superplasticity in magnesium alloys processed by equal-channel angular pressing. <i>Scripta Materialia</i> , 2009, 61, 84-87.	5.2	73
22	The effect of hydrostatic pressure on the activation of non-basal slip in a magnesium alloy. <i>Scripta Materialia</i> , 2009, 61, 844-847.	5.2	38
23	Microstructure and rolling capability of modified AZ31â€“Ceâ€“Gd alloys. <i>Materials Characterization</i> , 2009, 60, 1298-1304.	4.4	18
24	Effects of ECAE temperature and billet orientation on the microstructure, texture evolution and mechanical properties of a Mgâ€“Znâ€“Yâ€“Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 499, 404-410.	5.6	57
25	Principles of grain refinement and superplastic flow in magnesium alloys processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 501, 105-114.	5.6	171
26	Principles of grain refinement in magnesium alloys processed by equal-channel angular pressing. <i>Journal of Materials Science</i> , 2009, 44, 4758-4762.	3.7	137
27	Effects of Processing Parameters on the Grain Refinement of Magnesium Alloy by Equal-Channel Angular Extrusion. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009, 40, 415-425.	2.2	69
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29	Effects of rare-earth elements and Ca additions on the microstructure and mechanical properties of AZ31 magnesium alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 526, 22-30.	5.6	87
30	Microstructure and mechanical properties of ZE10 magnesium alloy prepared by equal channel angular pressing. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2009, 16, 559-563.	4.9	11
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38	Microstructure and mechanical properties of ultrafine grain ZK60 alloy processed by equal channel angular pressing. <i>Journal of Materials Science</i> , 2010, 45, 1655-1662.	3.7	26
39	Grain refinement and mechanical behavior of a magnesium alloy processed by ECAP. <i>Journal of Materials Science</i> , 2010, 45, 4827-4836.	3.7	179
40	A strategy for creating ultrafine-grained microstructure in magnesium alloy sheets. <i>Materials Letters</i> , 2010, 64, 647-649.	2.6	14
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42	Microstructure and mechanical property of dual-directional-extruded Mg alloy AZ31. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 4050-4055.	5.6	11
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44	The microstructure, tensile, and shear deformation behavior of an AZ31 magnesium alloy after extrusion and equal channel angular pressing. <i>Materials & Design</i> , 2010, 31, 3512-3517.	5.1	106
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47	The contributions of grain size, dislocation density and twinning to the strength of a magnesium alloy processed by ECAP. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 533-538.	5.6	76
48	Room-temperature equal channel angular extrusion of pure magnesium. <i>Acta Materialia</i> , 2010, 58, 3247-3261.	7.9	237
49	Microstructure and Properties of Magnesium Alloy by Equal Channel Angular Processing. <i>Advanced Materials Research</i> , 0, 146-147, 814-817.	0.3	0
50	Microstructure and Mechanical Properties of an AZ31 Magnesium Alloy Processed by Accumulative Back Extrusion (ABE). <i>Materials Science Forum</i> , 2010, 667-669, 1033-1038.	0.3	1
51	The Influence of Texture and Grain Size on Compressive Deformation Behavior of Pure Mg through Equal-Channel Angular Processing. <i>Materials Science Forum</i> , 2010, 667-669, 385-390.	0.3	1
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53	Shear banding phenomenon during severe plastic deformation of an AZ31 magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2011, 509, 3806-3810.	5.5	54
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56	In vitro study on equal channel angular pressing AZ31 magnesium alloy with and without back pressure. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 1802-1806.	3.5	47
57	Shear deformation and grain refinement during accumulative back extrusion of AZ31 magnesium alloy. <i>Journal of Materials Science</i> , 2011, 46, 1937-1944.	3.7	40
58	Effect of twins and non-basal planes activated by equal channel angular rolling process on properties of AZ31 magnesium alloy. <i>Journal of Materials Science</i> , 2011, 46, 7689-7695.	3.7	19
59	Processing of AZ31 magnesium alloy by a new noble severe plastic deformation method. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 1334-1339.	5.6	51
60	Influence of strain rate on the characteristics of a magnesium alloy processed by high-pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 3601-3608.	5.6	62
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77	Influence of Pressing Temperature on Microstructure Evolution and Mechanical Behavior of Ultrafine-Grained Cu Processed by Equal-Channel Angular Pressing. Advanced Engineering Materials, 2012, 14, 185-194.	3.5	32
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111	Role of starting texture and deformation modes on low-temperature shear formability and shear localization of Mg-3Al-1Zn alloy. <i>Acta Materialia</i> , 2015, 89, 408-422.	7.9	88
112	Microhardness, microstructure and tensile behavior of an AZ31 magnesium alloy processed by high-pressure torsion. <i>Journal of Materials Science</i> , 2015, 50, 7424-7436.	3.7	60
113	Structure and mechanical properties of the Mg-Y-Gd-Zr alloy after high pressure torsion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 667, 217-223.	5.6	48
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123	Effect of strain rate on the mechanical properties of magnesium alloy AMX602. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 649, 338-348.	5.6	36
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142	Structural evolutions of metallic materials processed by severe plastic deformation. <i>Materials Science and Engineering Reports</i> , 2018, 133, 1-59.	31.8	401
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