Dongdi Yin

List of Publications by Year in descending order

56 papers	1,796 citations	218592 26 h-index	289141 40 g-index
59 all docs	59 docs citations	59 times ranked	777 citing authors

#	Article	IF	Citations
1	High-ductility fine-grained Mg-1.92Zn-0.34Y alloy fabricated by semisolid and then hot extrusion. Journal of Magnesium and Alloys, 2023, 11, 533-542.	5.5	12
2	Unexpected high-temperature brittleness of a Mg-Gd-Y-Ag alloy. Journal of Magnesium and Alloys, 2022, 10, 2510-2515.	5.5	11
3	Effect of Y content and equal channel angular pressing on the microstructure, texture and mechanical property of extruded Mg-Y alloys. Journal of Magnesium and Alloys, 2022, 10, 195-208.	5.5	31
4	Investigation on Slip Activity and Plastic Heterogeneity of Aged Mgâ€“10Y Sheets During Compression. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 535-555.	1.1	16
5	The deformation modes and transferability during low-cycle fatigue of Mg and Mgâ€“3Y alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142838.	2.6	14
6	Quantitative analysis of the deformation modes and cracking modes during low-cycle fatigue of a rolled AZ31B magnesium alloy: The influence of texture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 844, 143103.	2.6	18
7	Anisotropic cyclic deformation behavior of an extruded Mg-3Y alloy sheet with rare earth texture. Journal of Magnesium and Alloys, 2022, 10, 1581-1597.	5.5	19
8	Quantitative Investigation on the Slip/Twinning Activity and Cracking Behavior During Low-Cycle Fatigue of an Extruded Mg-3Y Sheet. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 332-349.	1.1	27
9	Effect of dislocation configuration on Ag segregation in subgrain boundary of a Mg-Ag alloy. Scripta Materialia, 2021, 191, 219-224.	2.6	33
10	Tension-compression asymmetry and the underlying slip/twinning activity in extruded Mgâ€“Y sheets. International Journal of Plasticity, 2021, 136, 102878.	4.1	136
11	Effects of precipitate on the slip activity and plastic heterogeneity of Mg-11Y-5Gd-2Zn-0.5Zr (wt. %) during room temperature compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 804, 140738.	2.6	31
12	Grain size effect on tensile properties and slip systems of pure magnesium. Acta Materialia, 2021, 206, 116604.	3.8	127
13	Experimental Study on the Elasticâ€“plastic Transitions of the Hetero-structured High Pressure Die Casting Mgâ€“Al-RE Alloy. Experimental Mechanics, 2021, 61, 1143-1152.	1.1	3
14	The Ductility Variation of High-Pressure Die-Cast AE44 Alloy: The Role of Inhomogeneous Microstructure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2274-2286.	1.1	8
15	A statistical analysis of compressive deformation mechanisms in an extruded Mgâ€“3Y sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 825, 141927.	2.6	11
16	Anomalous Tension Twinning Activity in Extruded Mg Sheet During Hard-Orientation Loading at Room Temperature. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 449-456.	1.1	22
17	Solute segregation assisted nanocrystallization of a cold-rolled Mgâ€“Ag alloy during annealing. Scripta Materialia, 2020, 177, 69-73.	2.6	43
18	Quantitative study on slip/twinning activity and theoretical critical shear strength of Mg alloy with Y addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 792, 139801.	2.6	19

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19	Atomic-scale three-dimensional structural characterisation of twin interface in Mg alloys. Philosophical Magazine Letters, 2020, 100, 392-401.	0.5	9
20	Effects of Y on the Deformation Mechanisms of Extruded Mg-Y Sheets During Room-Temperature Compression. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 2738-2751.	1.1	23
21	Extra Strain Hardening in High Pressure Die Casting Mg-Al-RE Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1487-1492.	1.1	5
22	Copper Cathodeâ€™s Ablated Structure Operated in a 50 Megawatt Arc Heater. Journal of Thermophysics and Heat Transfer, 2019, 33, 1055-1064.	0.9	9
23	Effects of Y content and temperature on the damping capacity of extruded Mg-Y sheets. Journal of Magnesium and Alloys, 2019, 7, 522-528.	5.5	34
24	Atomic structure of Î³â€³ phase in Mgâ€“Gdâ€“Yâ€“Ag alloy induced by Ag addition. Philosophical Magazine, 2019, 99, 1957-1969.	0.7	27
25	Microstructure refinement of Mg-Al-RE alloy by Gd addition. Materials Letters, 2019, 246, 125-128.	1.3	39
26	Effects of semisolid treatment and ECAP on the microstructure and mechanical properties of Mg-6.52Zn-0.95Y alloy with icosahedral phase. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 751, 283-291.	2.6	20
27	Microstructural evolution and mechanical properties of Mg-9.8Gd-2.7Y-0.4Zr alloy produced by repetitive upsetting. Journal of Materials Science and Technology, 2018, 34, 1067-1075.	5.6	42
28	Microstructure, texture and mechanical properties evolution of extruded fine-grained Mg-Y sheets during annealing. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 720, 24-35.	2.6	51
29	Modification of eutectic Si and the microstructure in an Al-7Si alloy with barium addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 728, 72-79.	2.6	48
30	Modification of Eutectic Si in Al-Si-(Ba) Alloy by Inducing a Novel 9R Structure in Twins. Materials, 2018, 11, 1151.	1.3	13
31	Plastic anisotropy and deformation behavior of extruded Mg-Y sheets at elevated temperatures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 598-608.	2.6	49
32	Effect of heat treatment and pre-deformation on damping capacity of cast Mg-Y binary alloys. Journal of Alloys and Compounds, 2017, 699, 976-982.	2.8	32
33	Effects of ECAP and Annealing Treatment on the Microstructure and Mechanical Properties of Mg-1Y (wt. %) Binary Alloy. Metals, 2017, 7, 119.	1.0	16
34	In-situ analysis of the slip activity during tensile deformation of cast and extruded Mg-10Gd-3Y-0.5Zr (wt.%) at 250Â°C. Materials Characterization, 2016, 116, 8-17.	1.9	32
35	Analysis of Slip Activity and Deformation Modes in Tension and Tension-Creep Tests of Cast Mg-10Gd-3Y-0.5Zr (Wt Pct) at Elevated Temperatures Using In Situ SEM Experiments. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 2421-2443.	1.1	7
36	In-situ analysis of the tensile deformation modes and anisotropy of extruded Mg-10Gd-3Y-0.5Zr (wt.%) at elevated temperatures. International Journal of Plasticity, 2016, 84, 255-276.	4.1	91

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37	Tensile and compressive deformation behavior of peak-aged cast Mgâ€“11Yâ€“5Gdâ€“2Znâ€“0.5Zr (wt%) alloy at elevated temperatures. Journal of Materials Science, 2016, 51, 10464-10477.	1.7	22
38	In-Situ Study of the Tensile Deformation and Fracture Modes in Peak-Aged Cast Mg-11Y-5Gd-2Zn-0.5Zr (Weight Percent). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6438-6452.	1.1	34
39	The impression creep behavior and microstructure evolution of cast and cast-then-extruded Mgâ€“10Gdâ€“3Yâ€“0.5Zr (wt%). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 649, 313-324.	2.6	30
40	The intrinsic effect of long period stacking ordered phases on mechanical properties in Mg-RE based alloys. Journal of Alloys and Compounds, 2016, 660, 252-257.	2.8	43
41	Applicability of Mg -Zn-(Y, Gd) Alloys for Engine Pistons. , 2016, , 325-330.		0
42	Tensile and compressive creep behavior of extruded Mgâ€“10Gdâ€“3Yâ€“0.5Zr (wt.%) alloy. Materials Characterization, 2015, 99, 25-37.	1.9	40
43	Tensile creep behavior and microstructure evolution of extruded Mgâ€“10Gdâ€“3Yâ€“0.5Zr (wt%) alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 578, 150-159.	2.6	42
44	Elevated-temperature impact toughness of Mgâ€“(Gd, Y)â€“Zr alloy. Scripta Materialia, 2013, 68, 885-888.	2.6	22
45	Creep behavior of Mgâ€“9Gdâ€“1Yâ€“0.5Zr (wt.%) alloy piston by squeeze casting. Materials Characterization, 2013, 78, 37-46.	1.9	23
46	Dry sliding wear behaviour of Mgâ€“10Gdâ€“3Yâ€“0.4Zr alloy. Materials & Design, 2012, 42, 223-229.	5.1	21
47	Creep and fracture behavior of as-cast Mgâ€“11Yâ€“5Gdâ€“2Znâ€“0.5Zr (wt%). Journal of Materials Science, 2012, 47, 6263-6275.	1.7	20
48	Creep and Fracture Behavior of Peak-Aged Mg-11Y-5Gd-2Zn-0.5Zr (wtÂpct). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 3338-3350.	1.1	32
49	Creep behavior of Mgâ€“11Yâ€“5Gdâ€“2Znâ€“0.5Zr (wt.%) at 573K. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 546, 239-247.	2.6	31
50	Effects of heat treatments on microstructure and mechanical properties of Mgâ€“11Yâ€“5Gdâ€“2Znâ€“0.5Zr (wt.%) alloy. Journal of Alloys and Compounds, 2011, 509, 1696-1704.	2.8	106
51	The elevated-temperature mechanical behavior of peak-aged Mgâ€“10Gdâ€“3Yâ€“0.4Zr Alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3105-3112.	2.6	56
52	Forgeability and die-forging forming of direct chill casting Mgâ€“Ndâ€“Znâ€“Zr magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3690-3694.	2.6	20
53	Characterization of phases in Mg-10Y-5Gd-2Zn-0.5Zr alloy processed by heat treatment. Transactions of Nonferrous Metals Society of China, 2010, 20, 2076-2080.	1.7	7
54	Comparison of microstructure in Mgâ€“10Yâ€“5Gdâ€“0.5Zr and Mgâ€“10Yâ€“5Gdâ€“2Znâ€“0.5Zr alloys by conventional casting. Journal of Alloys and Compounds, 2009, 477, 374-378.	2.8	58

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55	Thermal properties of Mgâ€“11Yâ€“5Gdâ€“2Znâ€“0.5Zr (wt.%) alloy. Journal of Alloys and Compounds, 2009, 487, 560-563.	2.8	53
56	Compressive Creep Behaviour of Extruded Mg-10Gd-3Y-0.5Zr (wt.%) Alloy. Materials Science Forum, 0, 765, 568-573.	0.3	4