List of Publications by Year in descending order

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WEN-CALLUL

#	Article	IF	CITATIONS
1	Effect of Y and Gd content on the microstructure and mechanical properties of Mg–Y–RE alloys. Journal of Magnesium and Alloys, 2019, 7, 345-354.	5.5	154
2	Effect of Gd content on high temperature mechanical properties of Mg–Gd–Y–Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 840-847.	2.6	89
3	Plastic deformation and heat treatment of Mg-Li alloys: a review. Journal of Materials Science and Technology, 2022, 99, 193-206.	5.6	85
4	Effect of Gd content on microstructure and mechanical properties of Mg–Gd–Y–Zr alloys under peak-aged condition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 615, 79-86.	2.6	72
5	Effect of Y content on microstructure and mechanical properties of as-cast Mg–8Li–3Al–2Zn alloy with duplex structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 650, 240-247.	2.6	70
6	Grain refinement and fatigue strengthening mechanisms in as-extruded Mg–6Zn–0.5Zr and Mg–10Gd–3Y–0.5Zr magnesium alloys by shot peening. International Journal of Plasticity, 2013, 49, 16-35.	4.1	66
7	Effect of Al additions on grain refinement and mechanical properties of Mg–Sm alloys. Journal of Alloys and Compounds, 2015, 620, 172-179.	2.8	66
8	Effect of cooling rate on the microstructure and mechanical properties of sand-casting Mg–10Gd–3Y–0.5Zr magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 152-160.	2.6	64
9	High temperature mechanical behavior of low-pressure sand-cast Mg–Gd–Y–Zr magnesium alloy. Journal of Magnesium and Alloys, 2019, 7, 597-604.	5.5	61
10	Microstructure and tensile properties of as-extruded Mg–Li–Zn–Gd alloys reinforced with icosahedral quasicrystal phase. Materials & Design, 2015, 66, 162-168.	5.1	58
11	Heat treatment, microstructure and mechanical properties of a Mg–Gd–Y alloy grain-refined by Al additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 576, 298-305.	2.6	57
12	Effect of extrusion ratio on microstructure and mechanical properties of Mg–8Li–3Al–2Zn–0.5Y alloy with duplex structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 692, 9-16.	2.6	53
13	Effect of chemical composition on the microstructure, tensile properties and fatigue behavior of sand-cast Mg–Gd–Y–Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 612, 293-301.	2.6	52
14	Effect of solid solution and aging treatments on the microstructures evolution and mechanical properties of Mg–14Gd—3Y–1.8Zn–0.5Zr alloy. Journal of Alloys and Compounds, 2013, 557, 91-97.	2.8	50
15	Fatigue behavior and plane-strain fracture toughness of sand-cast Mg–10Gd–3Y–0.5Zr magnesium alloy. Materials & Design, 2014, 59, 466-474.	5.1	46
16	Mechanical and Tribological Characterization of Al-Mg2Si Composites After Yttrium Addition and Heat Treatment. Journal of Materials Engineering and Performance, 2014, 23, 1146-1156.	1.2	46
17	Effect of heat treatment on tensile properties, impact toughness and plane-strain fracture toughness of sand-cast Mg-6Gd-3Y-0.5Zr magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 705, 402-410.	2.6	44
18	Effect of heat treatment on microstructure, mechanical properties and fracture behaviors of sand-cast Mg-4Y-3Nd-1Gd-0.2Zn-0.5Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 677, 411-420.	2.6	43

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19	Preparation of Mg–Nd–Zn–(Zr) alloys semisolid slurry by electromagnetic stirring. Materials and Design, 2016, 95, 398-409.	3.3	41
20	Microstructure and mechanical properties of as-cast and extruded Mg–8Li–3Al–2Zn–0.5Nd alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 621, 198-203.	2.6	40
21	Microstructural evolution and mechanical properties of cast Al-2Li-2Cu-0.5Mg-0.2Zr alloy during heat treatment. Materials Characterization, 2017, 132, 312-319.	1.9	40
22	Preparation of an Mg–Gd–Zn alloy semisolid slurry by low frequency electro-magnetic stirring. Materials and Design, 2015, 84, 53-63.	3.3	39
23	Influence of heat treatment on microstructure and mechanical properties of as-cast Mg–8Li–3Al–2Zn–xY alloy with duplex structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 87-94.	2.6	38
24	Influence of Er addition on microstructure and mechanical properties of as-cast Mg-10Li-5Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 739, 395-403.	2.6	36
25	Effect of Shot Peening on Surface Characteristics and Fatigue Properties of T5-Treated ZK60 Alloy. Materials Transactions, 2009, 50, 791-798.	0.4	34
26	Balance of mechanical properties of Mg-8Li-3Al-2Zn-0.5Y alloy by solution and low-temperature aging treatment. Journal of Alloys and Compounds, 2019, 791, 655-664.	2.8	34
27	Microstructure and mechanical properties of rheo-squeeze casting AZ91-Ca magnesium alloy prepared by gas bubbling process. Materials & Design, 2015, 67, 1-8.	5.1	30
28	Origin of the age-hardening and age-softening response in Mg-Li-Zn based alloys. Acta Materialia, 2022, 226, 117673.	3.8	29
29	Microstructure evolution of semi-solid Mg–10Gd–3Y–0.5Zr alloy during isothermal heat treatment. Journal of Magnesium and Alloys, 2013, 1, 39-46.	5.5	27
30	Effect of heat treatment on microstructures and mechanical properties of sand-cast Mg–4Y–2Nd–1Gd–0.4Zr magnesium alloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 1540-1548.	1.7	26
31	Microstructure and mechanical properties of repair welds of low-pressure sand-cast Mg–Y–RE–Zr alloy by tungsten inert gas welding. Journal of Magnesium and Alloys, 2022, 10, 180-194.	5.5	26
32	Effects of Gd and Zr additions on the microstructures and high-temperature mechanical behavior of Mg–Gd–Y–Zr magnesium alloys in the product form of a large structural casting. Journal of Materials Research, 2015, 30, 3461-3473.	1.2	25
33	Microstructure characterization and mechanical properties of the as-cast and as-extruded Mg-xLi-5Zn-0.5Er (x = 8, 10 and 12†wt%) alloys. Materials Characterization, 2020, 159, 110008.	1.9	25
34	Microstructural evolution, mechanical properties and corrosion behavior of as-cast Mg-5Li-3Al-2Zn alloy with different Sn and Y addition. Journal of Materials Science and Technology, 2021, 72, 16-22.	5.6	25
35	Effects of Cooling Rate and Solute Content on the Grain Refinement of Mg-Gd-Y Alloys by Aluminum. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4665-4678.	1.1	24
36	Microstructure characterization and high-temperature shear strength of the Mg–10Gd–3Y–1.2Zn–0.5Zr alloy in the as-cast and aged conditions. Journal of Alloys and Compounds, 2015, 619, 826-833.	2.8	24

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37	Effect of rolling strain on microstructure and tensile properties of dual-phase Mg–8Li–3Al–2Zn–0.5Y alloy. Journal of Materials Science and Technology, 2018, 34, 2256-2262.	5.6	24
38	Microstructure and mechanical properties of sand-cast Mg-6Gd-3Y-0.5Zr alloy subject to thermal cycling treatment. Journal of Materials Science and Technology, 2020, 43, 208-219.	5.6	24
39	Effect of heat treatment on microstructures and mechanical properties of sand-cast Mg-10Gd-3Y-0.5Zr magnesium alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 611-618.	1.7	23
40	Strengthening-toughening methods and mechanisms of Mg–Li alloy: a review. Rare Metals, 2022, 41, 1176-1188.	3.6	21
41	Role of extrusion temperature on the microstructure evolution and tensile properties of an ultralight Mg-Li-Zn-Er alloy. Journal of Alloys and Compounds, 2021, 876, 160181.	2.8	20
42	Influence of heat treatment on microstructures and mechanical properties of gravity cast Mg–4.2Zn–1.5RE–0.7Zr magnesium alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 3611-3620.	1.7	19
43	Effects of chemical composition on the microstructure and mechanical properties of gravity cast Mg–xZn–yRE–Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 594, 52-61.	2.6	19
44	Effect of heat treatment on the stress corrosion cracking behavior of cast Mg-3Nd-3Gd-0.2Zn-0.5Zr alloy in a 3.5Âwt% NaCl salt spray environment. Materials Characterization, 2022, 183, 111630.	1.9	19
45	Achieving low-temperature Zr alloying for microstructural refinement of sand-cast Mg-Gd-Y alloy by employing zirconium tetrachloride. Materials Characterization, 2021, 171, 110727.	1.9	18
46	Microstructure and mechanical properties of as-cast and solid solution treated Mgâ^'8Liâ^'xAlâ^'yZn alloys. Transactions of Nonferrous Metals Society of China, 2021, 31, 925-938.	1.7	18
47	High cycle fatigue behavior and mechanical performance of a novel sand-cast Mg-Nd-Gd alloy: Effect of heat treatment. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 813, 141172.	2.6	18
48	Microstructure, mechanical properties and fracture behavior of peak-aged Mg34Y32Nd31Gd alloys under different aging conditions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 561, 303-311.	2.6	16
49	The role of Gd on the microstructural evolution and mechanical properties of Mg-3Nd-0.2Zn-0.5Zr alloy. Materials Characterization, 2021, 175, 111076.	1.9	16
50	Influence of Pressure and Temperature on Microstructure and Mechanical Behavior of Squeeze Cast Mg-10Gd-3Y-0.5Zr Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4104-4115.	1.1	15
51	Microstructure and mechanical properties of as-cast Mgâ^'8Liâ^'xZnâ^'yGd (x=1, 2, 3, 4; y=1, 2) alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 1211-1222.	1.7	15
52	High-cycle fatigue behavior of Mg-8Li-3Al-2Zn-0.5Y alloy under different states. Journal of Magnesium and Alloys, 2021, 9, 1609-1618.	5.5	15
53	Effect of solution treatment on microstructure and mechanical properties of cast Al–3Li–1.5Cu–0.2Zr alloy. Journal of Materials Research, 2016, 31, 1124-1132.	1.2	14
54	Microstructure and High Temperature Tensile Properties of Mg–10Gd–5Y–0.5Zr Alloy after Thermo-Mechanical Processing. Metals, 2018, 8, 980.	1.0	14

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55	Effects of Ce-rich RE on microstructure and mechanical properties of as-cast Mg-8Li-3Al-2Zn-0.5Nd alloy with duplex structure. Progress in Natural Science: Materials International, 2019, 29, 103-109.	1.8	14
56	Effects of rotating gas bubble stirring treatment on the microstructures ofÂsemi-solid AZ91-2Ca alloy. Journal of Magnesium and Alloys, 2013, 1, 217-223.	5.5	13
57	Effect of complex melt-refining treatment on microstructure and mechanical properties of sand-cast Mg–10Gd–3Y–0.5Zr alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 1811-1821.	1.7	13
58	Fatigue behavior of hot-extruded Mg–10Gd–3Y magnesium alloy. Journal of Materials Research, 2010, 25, 773-783.	1.2	12
59	Low temperature mechanical properties of as-extruded Mg–10Gd–3Y–0.5Zr magnesium alloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 2883-2890.	1.7	12
60	Highâ€Temperature Tensile and Compressive Behavior of Peakâ€Aged Sandâ€Cast Mg–10Gd–3Y–0.5Zr All Advanced Engineering Materials, 2016, 18, 671-677.	о <u>у</u> . 1:6	12
61	Preparation and rheo-squeeze casting of semi-solid AZ91–2 wt% Ca magnesium alloy by gas bubbling process. Journal of Materials Research, 2015, 30, 825-832.	1.2	11
62	Effect of Zn addition on microstructure and mechanical properties of Mg–9Gd–3Y–0.5Zr alloy. Journal of Materials Research, 2018, 33, 733-744.	1.2	11
63	Effect of Zn Addition on the Microstructure and Mechanical Properties of Cast Mg–10Gd–3.5Er–xZn–0.5Zr Alloys. Acta Metallurgica Sinica (English Letters), 2020, 33, 1505-1517.	1.5	11
64	Effect of reclaimed sand additions on mechanical properties and fracture behavior of furan no-bake resin sand. China Foundry, 2017, 14, 128-137.	0.5	10
65	Influence of heat treatment on cyclic deformation and low-cycle fatigue behavior of sand-cast Mg–10Gd–3Y–0.5Zr magnesium alloy. Journal of Materials Research, 2017, 32, 2179-2187.	1.2	10
66	Effects of Al and Y Addition on Microstructures and Mechanical Properties of Asâ€Cast Mg–14Li Based Alloy. Advanced Engineering Materials, 2019, 21, 1800755.	1.6	10
67	Effects of processing parameters on microstructure of semi-solid slurry of AZ91D magnesium alloy prepared by gas bubbling. Transactions of Nonferrous Metals Society of China, 2015, 25, 2181-2187.	1.7	9
68	Microstructural Evolution and Mechanical Properties of As ast and Asâ€Extruded Mg–14Li Alloy with Different Zn/Y and Zn/Gd Addition. Advanced Engineering Materials, 2020, 22, 2000480.	1.6	9
69	Addressing the abnormal grain coarsening during post-weld heat treatment of TIG repair welded joint of sand-cast Mg-Y-RE-Zr alloy. Materials Characterization, 2021, 176, 111125.	1.9	9
70	Effect of mold temperature on microstructure and mechanical properties of rheo-squeeze casting Mg–3Nd–0.2Zn–0.4Zr alloy. Journal of Materials Research, 2017, 32, 4206-4218.	1.2	7
71	Formation of non-dendritic microstructures in preparation of semi-solid Mg-RE alloys slurries: Roles of RE content and cooling rate. Journal of Materials Processing Technology, 2020, 279, 116545.	3.1	7
72	Influence of cryogenic treatment on room and low temperature tensile behavior of as-cast Mg–10Gd–3Y–0.5Zr magnesium alloy. Journal of Materials Research, 2016, 31, 419-426.	1.2	6

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73	Effects of minor Y addition on microstructure and mechanical properties of Mg–Nd–Zn–Zr alloy. Journal of Materials Research, 2017, 32, 3712-3722.	1.2	6
74	Microstructure and corrosion behavior of as-homogenized and as-extruded Mgâ^'xLiâ^'3Alâ^'2Znâ^'0.5Y alloys (x=4, 8, 12). Transactions of Nonferrous Metals Society of China, 2022, 32, 134-146.	1.7	6
75	Effect of heat treatments on microstructure and mechanical properties of sand cast Al–2Li–2Cu–0.5Mg–0.2Sc–0.2Zr alloy. Transactions of Nonferrous Metals Society of China, 2022, 32, 411-423.	1.7	6
76	Effect of heat treatment on corrosion behavior of low pressure sand cast Mg-10Gd-3Y-0.5Zr alloys. China Foundry, 2016, 13, 276-283.	0.5	5
77	Semi-solid slurry preparation, rheo-die casting and rheo-squeeze casting of an AZ91–2Ca–1.5Ce ignition-proof magnesium alloy by gas-bubbling process. Journal of Materials Research, 2017, 32, 677-686.	1.2	5
78	Effects of pressure and aging treatment on microstructures and mechanical properties of rheo-squeeze casting Mg–3Nd–0.2Zn–0.4Zr alloy. Journal of Materials Research, 2018, 33, 758-771.	1.2	5
79	Microstructural Characteristics and Mechanical Properties of Cast Mg–3Nd–3Gd–xZn–0.5Zr Alloys. Acta Metallurgica Sinica (English Letters), 2022, 35, 922-940.	1.5	5
80	Smooth and notched fatigue performance of aging treated and shot peened ZK60 magnesium alloy. Journal of Materials Research, 2010, 25, 1375-1387.	1.2	4
81	High cycle fatigue behavior of different regions in a low-pressure sand-cast GW103K magnesium alloy component. Journal of Materials Research, 2014, 29, 2587-2595.	1.2	4
82	Influence of different casting processes on high cycle fatigue behavior of Mg–10Gd–3Y–0.5Zr alloy. Journal of Materials Research, 2016, 31, 2538-2548.	1.2	4
83	Effect of Gd addition on the wear behavior of Mg– <i>x</i> Gd–3Y–0.5Zr alloys. Journal of Materials Research, 2016, 31, 1133-1144.	1.2	3
84	Effect of Different Ageing Processes on Microstructure and Mechanical Properties of Cast Al–3Li–2Cu–0.2Zr Alloy. Acta Metallurgica Sinica (English Letters), 2020, 33, 1243-1251.	1.5	3
85	Effects of Li content on microstructure and mechanical properties of as-cast Mgâ^'xLiâ^'3Alâ^'2Znâ^'0.5Y alloys. Transactions of Nonferrous Metals Society of China, 2022, 32, 838-849.	1.7	3
86	Effects of Cu content on the microstructure, mechanical property, and hot tearing susceptibility of die casting hypereutectic Al–22Si–0.4Mg alloy. Journal of Materials Research, 2016, 31, 3629-3637.	1.2	2
87	Effect of rotating gas bubble stirring process parameters on purifying effectiveness and mechanical properties of sand-cast Mg–10Gd–3Y–0.5Zr alloy. Journal of Materials Research, 2015, 30, 224-232.	1.2	1
88	High ycle Fatigue Behavior of Deep Cryogenic–Elevated Temperature Cycling Treated Sandâ€Cast Mg–6Gd–3Y–0.5Zr Alloy. Advanced Engineering Materials, 2021, 23, 2100234.	1.6	1
89	High-Cycle Fatigue of Mg–6Gd–3Y–0.5Zr Cast Magnesium Alloys. Springer Proceedings in Physics, 2019, , 515-525	0.1	1
90	Fracture Behavior of Low-Pressure Sand-Cast Mg–Gd–Y Magnesium Alloy Under Different Types of Loads. Journal of Materials Engineering and Performance, 0, , 1.	1.2	1