Wen-Bo Du

List of Publications by Year in descending order

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414034 393982 1,272 61 19 32 citations h-index g-index papers 61 61 61 883 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	A review on thermal conductivity of magnesium and its alloys. Journal of Magnesium and Alloys, 2020, 8, 78-90.	5.5	167
2	Synthesis of CNT-reinforced AZ31 magnesium alloy composites with uniformly distributed CNTs. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 628, 350-357.	2.6	106
3	Microstructure, texture and mechanical properties of as-extruded Mg–Zn–Er alloys containing W-phase. Journal of Alloys and Compounds, 2014, 602, 32-39.	2.8	61
4	Effects of trace Ca/Sn addition on corrosion behaviors of biodegradable Mg–4Zn–0.2Mn alloy. Journal of Magnesium and Alloys, 2018, 6, 1-14.	5.5	48
5	In situ prepared amorphous FeCoO-Polyaniline/multiwalled carbon nanotube nanohybrids as efficient oxygen evolution catalysts for rechargeable Zn-air batteries. Journal of Power Sources, 2018, 399, 337-342.	4.0	43
6	Effective dispersion of multi-walled carbon nanotubes in aqueous solution using an ionic-gemini dispersant. Journal of Colloid and Interface Science, 2018, 512, 750-757.	5.0	40
7	Remarkably enhanced mechanical properties of Mg-8Gd-1Er-0.5Zr alloy on the route of extrusion, rolling and aging. Materials Letters, 2018, 212, 155-158.	1.3	37
8	Effect of Zn/Er weight ratio on phase formation and mechanical properties of as-cast Mg–Zn–Er alloys. Materials & Design, 2012, 35, 259-265.	5.1	35
9	Significantly enhancing the strength \hat{A} + ductility combination of Mg-9Al alloy using multi-walled carbon nanotubes. Journal of Alloys and Compounds, 2019, 790, 974-982.	2.8	35
10	PdCo bimetallic nano-electrocatalyst as effective air-cathode for aqueous metal-air batteries. International Journal of Hydrogen Energy, 2018, 43, 5001-5011.	3.8	31
11	Icosahedral quasicrystalline phase in an as-cast Mg-Zn-Er alloy. Rare Metals, 2009, 28, 297-301.	3.6	29
12	Microstructure, texture and mechanical properties of as-extruded Mg–Zn–Er alloys. Materials Science &	2.6	29
13	Microstructures and mechanical properties of Mg–13Gd–5Er–1Zn–0.3Zr alloy. Materials & Design, 2014, 58, 277-283.	5.1	29
14	Combination of enhanced thermal conductivity and strength of MWCNTs reinforced Mg-6Zn matrix composite. Journal of Alloys and Compounds, 2020, 838, 155573.	2.8	29
15	Effect of microstructure evolution on mechanical property of extruded Mg–12Gd–2Er–1Zn–0.6Zr alloys. Journal of Magnesium and Alloys, 2015, 3, 23-28.	5. 5	26
16	Mechanical properties and corrosion behaviors of Mgâ [^] '4Znâ [^] '0.2Mnâ [^] '0.2Ca alloy after long term in vitro degradation. Transactions of Nonferrous Metals Society of China, 2020, 30, 363-372.	1.7	26
17	Effects of grain refinement and precipitate strengthening on mechanical properties of double-extruded Mg-12Gd-2Er-0.4Zr alloy. Journal of Alloys and Compounds, 2022, 898, 162873.	2.8	25
18	Tensile and creep behaviors of Mg–5Zn–2.5Er alloy improved by icosahedral quasicrystal. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 1255-1259.	2.6	23

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19	Hot deformation behaviors and processing maps of Mg–Zn–Er alloys based on Gleeble–1500 hot compression simulation. Transactions of Nonferrous Metals Society of China, 2016, 26, 3123-3134.	1.7	21
20	Compelling mechanical properties of carbon nanotubes reinforced pure magnesium composite by effective interface bonding of Mg2Ni. Journal of Alloys and Compounds, 2017, 727, 963-969.	2.8	20
21	Development of extraordinary high-strength-toughness Mg alloy via combined processes of repeated plastic working and hot extrusion. Materials Science & Description (Science & Structural Materials: Properties, Microstructure and Processing, 2013, 573, 127-131.	2.6	19
22	Microstructure, texture and mechanical properties of Mg–Zn–Er alloys containing I-phase and W-phase simultaneously. Journal of Alloys and Compounds, 2016, 665, 76-85.	2.8	19
23	Obtaining Ultra-High Strength and Ductility in a Mg–Gd–Er–Zn–Zr Alloy via Extrusion, Pre-deformation and Two-Stage Aging. Acta Metallurgica Sinica (English Letters), 2021, 34, 39-44.	1.5	19
24	Effect of trace addition of al on microstructure, texture and tensile ductility of Mg-6Zn-0.5Er alloy. Journal of Magnesium and Alloys, 2016, 4, 135-139.	5.5	18
25	Effects of heat treatment on microstructure and mechanical properties of Mg–5Zn–0.63Er alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 59-65.	1.7	17
26	Precipitate characteristics and their effects on the mechanical properties of as-extruded Mg-Gd-Li-Y-Zn alloy. Journal of Materials Science and Technology, 2021, 88, 21-35.	5.6	17
27	Multi-walled carbon nanotubes supported binary PdSn nanocatalyst as effective catalytic cathode for Mg-air battery. Journal of Electroanalytical Chemistry, 2018, 826, 217-224.	1.9	14
28	Improved mechanical performance of double-pass extruded Mg-Gd-Er-Zr alloys with various rare earth contents. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142922.	2.6	14
29	Effect of aging on microstructure of Mg-Zn-Er alloys. Journal of Rare Earths, 2009, 27, 1042-1045.	2.5	13
30	Microstructures and mechanical properties of homogenization and isothermal aging Mg–Gd–Er–Zn–Zr alloy. Rare Metals, 2016, 35, 443-449.	3.6	13
31	Cooling rate controlled basal precipitates and age hardening response of solid-soluted Mg–Gd–Er–Zn–Zr alloy. Journal of Magnesium and Alloys, 2020, , .	5.5	13
32	Microstructure, mechanical properties and stretch formability of as-rolled Mg alloys with Zn and Er additions. Rare Metals, 2021, 40, 2179-2187.	3.6	13
33	Microstructure and mechanical properties of AZ31 magnesium alloy reinforced by I-phase. Rare Metals, 2019, 38, 733-738.	3.6	12
34	Microstructures and mechanical properties of as-extruded Mg–8Gd–2Y–1Zn–6Li alloy. Journal of Alloys and Compounds, 2021, 864, 158826.	2.8	12
35	New strategy to solve the ambient strength-ductility dilemma in precipitation-strengthened Mg-Gd alloys via Li addition. Scripta Materialia, 2022, 220, 114901.	2.6	12
36	Microstructures and mechanical properties of quasicrystal reinforced AZ31 matrix composites. Materials Science & Description A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 446-451.	2.6	11

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37	Microstructure and mechanical properties of extruded Mg–6Zn–xEr alloys. Transactions of Nonferrous Metals Society of China, 2013, 23, 2863-2873.	1.7	11
38	Effect of pre-solution treatment on mechanical properties of as-extruded Mg96.9Zn0.43Gd2.48Zr0.15 alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 674, 33-39.	2.6	11
39	Creep properties and controlled creep mechanism of as-cast Mg-5Zn-2.5Er alloy. Transactions of Nonferrous Metals Society of China, 2010, 20, 1212-1216.	1.7	9
40	Microstructure evolution of Mg–9Gd–2Er–0.4Zr alloy during solid solution treatment. Transactions of Nonferrous Metals Society of China, 2013, 23, 593-598.	1.7	9
41	Dual phases strengthening behavior of Mg–10Gd–1Er–1Zn–0.6Zr alloy. Transactions of Nonferrous Metals Society of China, 2020, 30, 635-646.	1.7	9
42	Precipitate Characteristics and Mechanical Performance of Cast Mg–6RE–1Zn–xCa–0.3Zr (x =	0 and 0.4	·) Tj _g ETQq0 0 (
43	Effects of Ca addition on microstructure, electrochemical behavior and magnesium-air battery performance of Mg-2Zn-xCa alloys. Journal of Electroanalytical Chemistry, 2022, 904, 115944.	1.9	9
44	Effect of the Ca2Mg6Zn3 Phase on the Corrosion Behavior of Biodegradable Mg-4.0Zn-0.2Mn-xCa Alloys in Hank's Solution. Materials, 2022, 15, 2079.	1.3	9
45	Thermodynamic calculation of intermetallic compounds in AZ91 alloy containing calcium. Transactions of Nonferrous Metals Society of China, 2006, 16, 392-396.	1.7	8
46	Stable icosahedral phase in Mg44Zn44Gd12 alloy. Journal of Rare Earths, 2012, 30, 503-506.	2.5	8
47	Microstructure evolutions of Mg-8Gd-2Er (wt.%) alloy during isothermal ageing at 200 °C. Journal of Rare Earths, 2012, 30, 1168-1171.	2.5	8
48	Effect of Zn addition on microstructure and mechanical properties of as-cast Mg–2Er alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 3792-3796.	1.7	8
49	Effects of secondary phases on texture and mechanical properties of as-extruded Mg–Zn–Er alloys. Transactions of Nonferrous Metals Society of China, 2018, 28, 890-895.	1.7	8
50	Effect of temperature on microstructure and texture evolution of Mg-Zn-Er alloy during hot compression. Transactions of Nonferrous Metals Society of China, 2018, 28, 2214-2225.	1.7	8
51	Microstructure and strengthening mechanisms of Mg-6Al-6Nd alloy. Rare Metals, 2010, 29, 55-61.	3.6	7
52	Mechanical properties and ageing response of the Mg–6Zn–1Er alloy produced by a new method of RPW process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 567-572.	2.6	7
53	Study on the behaviors of multi-walled carbon nanotubes modified by gemini sulfonate dispersant and their reinforced magnesium matrix composite. Materials Chemistry and Physics, 2019, 229, 279-285.	2.0	7
54	Microstructures and mechanical properties of Mg-6Gd-1Er-0.5Zr alloy sheets produced with different rolling temperatures. Journal of Alloys and Compounds, 2022, 893, 162213.	2.8	7

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55	Failure mechanism of as-cast Mg-6Zn-2Er alloy during tensile test at room temperature. Transactions of Nonferrous Metals Society of China, 2013, 23, 3193-3199.	1.7	6
56	Precipitation behavior of 14H-LPSO structure in Mg–12Gd–2Er–1Zn–0.6Zr Alloy. Rare Metals, 2016, 35, 367-373.	3.6	5
57	Microstructural control and hardening response of Mg–6Zn–0.5Er–0.5Ca alloy. Rare Metals, 2016, 35, 526-531.	3.6	4
58	Creep mechanism of as-cast Mg-6Al-6Nd alloy. Rare Metals, 2010, 29, 538-541.	3.6	3
59	Microstructure and electrochemical properties of La0.8–x MM x Mg0.2Ni3.1Co0.3Al0.1 (xÂ=Â0, 0.1, 0.2, 0.3) alloys. Rare Metals, 2017, 36, 645-650.	3.6	3
60	Effect of Secondary Extrusion on the Microstructure and Mechanical Properties of Mg-12Gd-2Er-0.4Zr Alloy. Journal of Materials Engineering and Performance, 2021, 30, 8996-9007.	1.2	3
61	Sensitivity Analysis of Laser Effect on Mg-Gd-Er Alloy. Microscopy and Microanalysis, 2017, 23, 714-715.	0.2	O