

Yan Yang

List of Publications by Year in descending order

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35
papers

1,831
citations

430874

18
h-index

434195

31
g-index

37
all docs

37
docs citations

37
times ranked

878
citing authors

#	ARTICLE	IF	CITATIONS
1	Research advances in magnesium and magnesium alloys worldwide in 2020. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 705-747.	11.9	499
2	Overview of advancement and development trend on magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 536-544.	11.9	337
3	Thermodynamics and kinetics of hydriding and dehydriding reactions in Mg-based hydrogen storage materials. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1922-1941.	11.9	246
4	Influence of Extrusion on the Microstructure and Mechanical Behavior of Mg-9Li-3Al-xSr Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 1101-1113.	2.2	76
5	Hot deformation behavior and processing map of a superlight dual-phase Mg-Li alloy. <i>Journal of Alloys and Compounds</i> , 2018, 766, 460-469.	5.5	54
6	Microstructure, tensile properties and corrosion behavior of friction stir processed Mg-9Li-1Zn alloy. <i>Journal of Materials Processing Technology</i> , 2019, 267, 393-402.	6.3	51
7	Constitutive modeling of Mg-9Li-3Al-2Sr-2Y at elevated temperatures. <i>Mechanics of Materials</i> , 2015, 89, 241-253.	3.2	49
8	Microstructure and strengthening mechanism of hot-extruded ultralight Mg-Li-Al-Sn alloys with high strength. <i>Journal of Materials Science and Technology</i> , 2022, 103, 186-196.	10.7	48
9	Constitutive Modeling and Hot Deformation Behavior of Duplex Structured Mg-Li-Al-Sr Alloy. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1289-1296.	10.7	44
10	Influence of extrusion temperature on microstructure and mechanical behavior of duplex Mg-Li-Al-Sr alloy. <i>Journal of Alloys and Compounds</i> , 2018, 750, 696-705.	5.5	44
11	Research on the microstructure and properties of a multi-pass friction stir processed 6061Al coating for AZ31 Mg alloy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 696-706.	11.9	35
12	Microstructure and mechanical properties of as-cast and extruded Mg-8Li-1Al-0.5Sn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 709, 247-253.	5.6	34
13	Microstructure and mechanical behavior of Mg-10Li-3Al-2.5Sr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 611, 1-8.	5.6	31
14	Strong and ductile Mg-0.4Al alloy with minor Mn addition achieved by conventional extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 795, 139926.	5.6	29
15	Deformation behavior and constitutive model for dual-phase Mg-Li alloy at elevated temperatures. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 508-518.	4.2	27
16	Dynamic Recrystallization Behavior and Corrosion Resistance of a Dual-Phase Mg-Li Alloy. <i>Materials</i> , 2018, 11, 408.	2.9	23
17	Tailoring the microstructure, mechanical properties and damping capacities of Mg-4Li-3Al-0.3Mn alloy via hot extrusion. <i>Journal of Materials Research and Technology</i> , 2022, 19, 4197-4208.	5.8	21
18	Ultralow loss and temperature stability of Li ₃ Mg ₂ NbO ₆ -xLiF ceramics with low sintering temperature. <i>Journal of Alloys and Compounds</i> , 2019, 782, 370-374.	5.5	20

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19	Kinetics of magnesium preparation by vacuum-assisted carbothermic reduction method. <i>Rare Metals</i> , 2016, 35, 192-197.	7.1	18
20	Effect of rolling reduction and annealing process on microstructure and corrosion behavior of LZ91 alloy sheet. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1816-1825.	4.2	17
21	Effects of Welding Speed and Post-weld Hot Rolling on Microstructure and Mechanical Properties of Friction Stir-Welded AZ31 Magnesium Alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 853-864.	2.9	16
22	Microstructure and corrosion behavior of as-extruded Mg-6.5Li-xY-yZn alloys. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153839.	5.5	15
23	Effect of Mn content on the microstructure and mechanical properties of Mg-6Li-4Zn-xMn alloys. <i>Progress in Natural Science: Materials International</i> , 2021, 31, 583-590.	4.4	13
24	Fine-grained Mg-1Mn-0.5Al-0.5Ca-0.5Zn alloy with high strength and good ductility fabricated by conventional extrusion. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 483-492.	4.2	12
25	Effect of Sr addition on microstructure and elevated temperature mechanical properties of Mg-3Zn-1Y alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 331-338.	5.6	11
26	Effect of Ca Content on the Mechanical Properties and Corrosion Behaviors of Extruded Mg-7Li-3Al Alloys. <i>Metals</i> , 2019, 9, 1212.	2.3	11
27	Effects of annealing temperature on microstructure and mechanical properties of LZ91 alloy. <i>Materials Science and Technology</i> , 2020, 36, 2010-2017.	1.6	10
28	Microstructure and Corrosion Properties of Duplex-Structured Extruded Mg-6Li-4Zn-xMn Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 0, , 1.	2.9	9
29	Microstructure and mechanical properties of Mg-8Li-xAl-0.5Ca alloys. <i>Materials Science and Technology</i> , 2019, 35, 26-36.	1.6	8
30	Effect of Sr on Microstructure and Mechanical Properties of Mg-9Li-3Al Alloy. <i>Materials Science Forum</i> , 0, 686, 84-89.	0.3	6
31	A comparison between DCCAE and conventional extrusion of Mg-9.5Li-3Al-1.6Y alloy. <i>Journal of Rare Earths</i> , 2016, 34, 626-631.	4.8	5
32	Microstructure and mechanical properties of as-cast and extruded Mg-8Li-3Al-0.7Si alloy. <i>Journal of Central South University</i> , 2018, 25, 764-771.	3.0	5
33	Microstructure and mechanical properties of Mg-6Li-xAl-0.8Sn alloys. <i>Materials Science and Technology</i> , 2018, 34, 2078-2086.	1.6	5
34	Microstructure and Solidification Behavior of Permanent-Mould-Cast Mg-9Li-3Al-XSr Magnesium Alloy. <i>Materials Science Forum</i> , 0, 686, 247-252.	0.3	2
35	Multi-scale Feature Recovery of Low-Light Enhancement Algorithm Based on U-net Network and Perceptual Loss. , 2022, , .		0