

Dejiang Li

List of Publications by Year in descending order

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1,928
citations

257101

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71
times ranked

1197
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Ce content on the modification of Mg ₂ Si phase in Mg-5Al-2Si alloy. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2299-2311.	5.5	5
2	Characterization on the formation of porosity and tensile properties prediction in die casting Mg alloys. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1857-1867.	5.5	12
3	A hot tearing criterion based on solidification microstructure in cast alloys. <i>Journal of Materials Science and Technology</i> , 2022, 105, 68-80.	5.6	19
4	Solidification microstructure evolution in LA42 Mg alloy under various cooling rates. <i>Journal of Materials Science</i> , 2022, 57, 11411-11429.	1.7	2
5	Hot Tearing Behavior in Double Ternary Eutectic Alloy System: Al-Mg-Si Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021, 52, 789-805.	1.1	17
6	Solid solution strengthening mechanism in high pressure die casting Al-Ce-Mg alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141109.	2.6	32
7	Effect of Al content on microstructure, thermal conductivity, and mechanical properties of Mg-La-Al-Mn alloys. <i>Journal of Materials Research</i> , 2021, 36, 3145-3154.	1.2	13
8	Enhanced ductility in high-pressure die casting Mg-4Ce-xAl-0.5Mn alloys via modifying second phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138870.	2.6	22
9	Cyclic Deformation Behavior of A Heat-Treated Die-Cast Al-Mg-Si-Based Aluminum Alloy. <i>Materials</i> , 2020, 13, 4115.	1.3	6
10	Hot Tearing Behavior in Double Ternary Eutectic Alloy System: Mg-Ce-Al Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 6658-6669.	1.1	12
11	Oxidation mechanism of molten Al-5Mg-2Si-Mn alloy. <i>Journal of Materials Science</i> , 2020, 55, 12554-12567.	1.7	3
12	Effect of Al Content on Hot-Tearing Susceptibility of Mg-10Zn-xAl Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 1897-1910.	1.1	25
13	Theoretical Analysis of the Galvanic Corrosion Behavior of Mg-Ge Binary Alloy. <i>Journal of the Electrochemical Society</i> , 2019, 166, C421-C427.	1.3	13
14	Low-cycle fatigue behavior of a newly developed cast aluminum alloy for automotive applications. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2019, 42, 1912-1926.	1.7	16
15	Cyclic deformation behavior of a high zinc-containing cast magnesium alloy. <i>International Journal of Fatigue</i> , 2019, 125, 1-10.	2.8	14
16	Microstructure and Tensile Properties of the Mg-6Zn-4Al-xSn Die Cast Magnesium Alloy. <i>Metals</i> , 2019, 9, 113.	1.0	5
17	Deformation mechanism and dynamic precipitation in a Mg-7Al-2Sn alloy processed by surface mechanical attrition treatment. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1473-1478.	5.6	11
18	Quantitative Study of Microstructure-Dependent Thermal Conductivity in Mg-4Ce-xAl-0.5Mn Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1970-1984.	1.1	26

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19	First principles calculations on the influence of solute elements and chlorine adsorption on the anodic corrosion behavior of Mg (0001) surface. <i>Surface Science</i> , 2018, 672-673, 68-74.	0.8	20
20	Basal-plane stacking-fault energies of Mg alloys: A first-principles study of metallic alloying effects. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1773-1780.	5.6	62
21	Effect of solute atoms and second phases on the thermal conductivity of Mg-RE alloys: A quantitative study. <i>Journal of Alloys and Compounds</i> , 2018, 747, 431-437.	2.8	86
22	Microstructure and High Temperature Tensile Properties of Mg-10Gd-5Y-0.5Zr Alloy after Thermo-Mechanical Processing. <i>Metals</i> , 2018, 8, 980.	1.0	14
23	Microstructure and mechanical properties of Mg-4.0Zn alloy reinforced by NiO-coated CNTs. <i>Journal of Materials Science and Technology</i> , 2017, 33, 452-460.	5.6	24
24	Room temperature deformation of LPSO structures by non-basal slip. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 682, 354-358.	2.6	59
25	Study of age hardening in a Mg-2.2 wt%Nd alloy by in situ synchrotron X-ray diffraction and mechanical tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 708, 319-328.	2.6	21
26	First-principles Calculations of Strengthening Compounds in Magnesium Alloy: A General Review. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1222-1231.	5.6	38
27	HRTEM studies of aging precipitate phases in the Mg-10Gd-3Y-0.4Zr alloy. <i>Journal of Rare Earths</i> , 2016, 34, 441-446.	2.5	10
28	Hot compressive deformation behaviors of Mg-10Gd-3Y-0.5Zr alloy. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 78-84.	1.8	9
29	Atomic relaxation, stability and electronic properties of Mg ₂ Sn (100) surfaces from ab-initio calculations. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 62-67.	5.5	10
30	Effect of Nd content and heat treatment on the thermal conductivity of Mg Nd alloys. <i>Journal of Alloys and Compounds</i> , 2016, 685, 114-121.	2.8	40
31	First principles investigation of $\hat{\Gamma}^2$ -short and $\hat{\Gamma}^2$ -long in Mg-Gd alloy. <i>Journal of Alloys and Compounds</i> , 2016, 671, 177-183.	2.8	18
32	Formation of a new incoherent twin boundary in a Mg-3Gd alloy. <i>Scripta Materialia</i> , 2016, 112, 136-139.	2.6	17
33	Cyclic Deformation Behavior of a Rare-Earth Containing Extruded Magnesium Alloy: Effect of Heat Treatment. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1168-1187.	1.1	29
34	Hot deformation behavior and workability of pre-extruded ZK60A magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1822-1830.	1.7	11
35	Twinning behavior and lattice rotation in a Mg-Gd-Y-Zr alloy under ballistic impact. <i>Journal of Alloys and Compounds</i> , 2015, 650, 622-632.	2.8	33
36	Microstructure evolution and mechanical properties of an Mg-Gd alloy subjected to surface mechanical attrition treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 630, 146-154.	2.6	58

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37	Mechanical, electronic and thermodynamic properties of C14-type AMg ₂ (A=Ca, Sr and Ba) compounds from first principles calculations. Computational Materials Science, 2015, 97, 75-85.	1.4	41
38	Microstructure and mechanical properties of Mg ₆ Gd ₃ Y _{0.5} Zr alloy processed by high-vacuum die-casting. Transactions of Nonferrous Metals Society of China, 2014, 24, 3769-3776.	1.7	29
39	Effect of heat treatment on microstructures and mechanical properties of high vacuum die casting Mg ₈ Gd ₃ Y _{0.4} Zr magnesium alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 3762-3768.	1.7	19
40	A first-principles study on structural stability and mechanical properties of polar intermetallic phases CaZn ₂ and SrZn ₂ . Philosophical Magazine, 2014, 94, 3945-3959.	0.7	8
41	Study on hydrogenation behaviors of a Mg-13Y alloy. International Journal of Hydrogen Energy, 2014, 39, 8303-8310.	3.8	11
42	Theoretical predictions of the structural and thermodynamic properties of MgZn ₂ Laves phase under high pressure. Applied Physics A: Materials Science and Processing, 2014, 115, 323-331.	1.1	17
43	Hydrogen Storage Properties of a Mg-Ni Nanocomposite Coprecipitated from Solution. Journal of Physical Chemistry C, 2014, 118, 18401-18411.	1.5	66
44	Low cycle fatigue of an extruded Mg ₃ Nd _{0.2} Zn _{0.5} Zr magnesium alloy. Materials & Design, 2014, 64, 63-73.	5.1	32
45	Dry Sliding Wear Behavior of Mg-Zn-Gd Alloy before and after Cryogenic Treatment. Tribology Transactions, 2014, 57, 275-282.	1.1	23
46	Structural, electronic and thermodynamic properties of BiF ₃ -type Mg ₃ Gd compound: A first-principle study. Physica B: Condensed Matter, 2014, 432, 33-39.	1.3	26
47	First-principles study of structural and electronic properties of C14-type Laves phase Al ₂ Zr and Al ₂ Hf. Computational Materials Science, 2014, 83, 27-34.	1.4	198
48	Microstructure and Mechanical Properties of Mg-7Al-2Sn Alloy Processed by Super Vacuum Die-Casting. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4788-4799.	1.1	28
49	Effect of rare earth elements on deformation behavior of an extruded Mg ₁₀ Gd ₃ Y _{0.5} Zr alloy during compression. Materials & Design, 2013, 46, 411-418.	5.1	70
50	Mechanical and thermodynamic properties of Al ₃ Sc and Al ₃ Li precipitates in Al-Li-Sc alloys from first-principles calculations. Physica B: Condensed Matter, 2013, 427, 85-90.	1.3	100
51	Predictions of the structural, electronic and thermodynamic properties of the anti-fluorite-type Mg ₂ Sn under pressure from first principles. Physica Scripta, 2013, 88, 045302.	1.2	24
52	Microstructure characterization and hydrogen desorption behaviors of Mg-Al-H powders prepared by reactive milling in hydrogen. Transactions of Nonferrous Metals Society of China, 2013, 23, 3112-3118.	1.7	2
53	A modified Johnson-Cook constitutive relationship for a rare-earth containing magnesium alloy. Journal of Rare Earths, 2013, 31, 1202-1207.	2.5	20
54	Effect of strain ratio on cyclic deformation behavior of a rare-earth containing extruded magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 250-259.	2.6	31

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55	Low cycle fatigue of a rare-earth containing extruded magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 575, 65-73.	2.6	80
56	The Effect of Particles on Microstructure and Mechanical Behaviour of Mg-10Gd-3Y-0.4Zr Alloy Processed by ECAP. <i>Materials Science Forum</i> , 2013, 765, 444-448.	0.3	1
57	First-principles investigation of structural and electronic properties of MgCu ₂ Laves phase under pressure. <i>Intermetallics</i> , 2012, 31, 257-263.	1.8	97
58	Mechanical properties of Mg-6Gd-1Y-0.5Zr alloy processed by low temperature thermo-mechanical treatment. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 2351-2356.	1.7	4
59	Ignition-proof properties of a high-strength Mg-Gd-Ag-Zr alloy. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2012, 17, 643-647.	0.5	16
60	High temperature compressive deformation behavior of an extruded Mg-8Gd-3Y-0.5Zr (wt.%) alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 526, 150-155.	2.6	18
61	Microstructure evolution of Mg-10Gd-3Y-1.2Zn-0.4Zr alloy during heat-treatment at 773K. <i>Journal of Alloys and Compounds</i> , 2009, 468, 164-169.	2.8	122
62	Influence of heat treatment on microstructure and mechanical properties of Mg-10Gd-3Y-1.2Zn-0.4Zr alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, s117-s121.	1.7	18
63	Effect of Cold Deformation on Microstructure and Mechanical Properties of Mg-8Gd-3Y-0.5Zr Alloy. <i>Materials Science Forum</i> , 0, 706-709, 1297-1302.	0.3	0
64	Effects of Heat Treatments on Corrosion Behavior of Mg AT72 Alloy. <i>Materials Science Forum</i> , 0, 747-748, 230-237.	0.3	4
65	Dynamic Precipitation Behaviors and Mechanical Properties of Mg-12Gd-3Y-0.5Zr Alloy Processed by Secondary Extrusion. <i>Materials Science Forum</i> , 0, 747-748, 192-197.	0.3	0
66	Effect of Sm on the Microstructure and Mechanical Property of Mg-xSm-0.4Zn-0.3Zr Alloys. <i>Materials Science Forum</i> , 0, 747-748, 238-244.	0.3	6
67	Isochronal Aging Hardening of the Mg-8Gd-3Y-0.5Zr Alloy after Cold Rolling. <i>Materials Science Forum</i> , 0, 747-748, 333-339.	0.3	0
68	Processing and Microstructures of $\hat{\Gamma}$ -Al ₂ O ₃ /AE44 Composite Synthesized by SS-HPDC. <i>Materials Science Forum</i> , 0, 747-748, 198-203.	0.3	0
69	Cyclic Deformation of Rare-Earth Containing Magnesium Alloys. <i>Advanced Materials Research</i> , 0, 891-892, 391-396.	0.3	5