

Bin Jiang

List of Publications by Year in descending order

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258
papers

8,053
citations

53794

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docs citations

259
times ranked

3719
citing authors

#	ARTICLE	IF	CITATIONS
1	Current research progress in grain refinement of cast magnesium alloys: A review article. <i>Journal of Alloys and Compounds</i> , 2015, 619, 639-651.	5.5	419
2	Active corrosion protection by a smart coating based on a MgAl-layered double hydroxide on a cerium-modified plasma electrolytic oxidation coating on Mg alloy AZ31. <i>Corrosion Science</i> , 2018, 139, 370-382.	6.6	271
3	Lubrication performance of MoS ₂ and SiO ₂ nanoparticles as lubricant additives in magnesium alloy-steel contacts. <i>Tribology International</i> , 2016, 93, 63-70.	5.9	260
4	High performance NiFe layered double hydroxide for methyl orange dye and Cr(VI) adsorption. <i>Chemosphere</i> , 2016, 152, 415-422.	8.2	252
5	Hot Deformation Behavior and Microstructural Evolution of Twin-Roll-Casting Mg Alloy during High-Temperature Compression. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-7.	1.8	207
6	Kinetics of the hydrogen absorption and desorption processes of hydrogen storage alloys: A review. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 32-48.	4.9	169
7	Superhydrophobic coatings for corrosion protection of magnesium alloys. <i>Journal of Materials Science and Technology</i> , 2020, 52, 100-118.	10.7	164
8	Influence of crystallographic texture and grain size on the corrosion behaviour of as-extruded Mg alloy AZ31 sheets. <i>Corrosion Science</i> , 2017, 126, 374-380.	6.6	158
9	Mechanisms of grain refinement by intensive shearing of AZ91 alloy melt. <i>Acta Materialia</i> , 2010, 58, 6526-6534.	7.9	122
10	A review on hot tearing of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 151-172.	11.9	104
11	An Investigation on the Tribological Performances of the SiO ₂ /MoS ₂ Hybrid Nanofluids for Magnesium Alloy-Steel Contacts. <i>Nanoscale Research Letters</i> , 2016, 11, 329.	5.7	99
12	Effect of Li addition on the mechanical behavior and texture of the as-extruded AZ31 magnesium alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 33-38.	5.6	95
13	Tribological performances of SiO ₂ /graphene combinations as water-based lubricant additives for magnesium alloy rolling. <i>Applied Surface Science</i> , 2019, 475, 847-856.	6.1	94
14	Microstructure and corrosion behavior of Mg-Sc binary alloys in 3.5 wt.% NaCl solution. <i>Corrosion Science</i> , 2020, 174, 108831.	6.6	90
15	Influence of the Al ₂ Ca phase on microstructure and mechanical properties of Mg-Al-Ca alloys. <i>Journal of Alloys and Compounds</i> , 2015, 647, 357-363.	5.5	87
16	Clarifying the roles of grain boundary and grain orientation on the corrosion and discharge processes of Li-Mg based Mg-Li alloys for primary Mg-air batteries. <i>Journal of Materials Science and Technology</i> , 2021, 62, 128-138.	10.7	87
17	Effects of Surface Terminations of 2D Bi ₂ WO ₆ on Photocatalytic Hydrogen Evolution from Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20067-20074.	8.0	78
18	Effects of Zn addition on the mechanical properties and texture of extruded Mg-Zn-Ca-Ce magnesium alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 705, 46-54.	5.6	74

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19	Effect of rolling-induced microstructure on corrosion behaviour of an as-extruded Mg-5Li-1Al alloy sheet. <i>Corrosion Science</i> , 2017, 119, 14-22.	6.6	71
20	Understanding solid solution strengthening at elevated temperatures in a creep-resistant Mg-Gd-Ca alloy. <i>Acta Materialia</i> , 2019, 181, 185-199.	7.9	71
21	An investigation on microstructure, texture and formability of AZ31 sheet processed by asymmetric porthole die extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 720, 85-97.	5.6	70
22	Grain refinement of Ca addition in a twin-roll-cast Mg-3Al-1Zn alloy. <i>Materials Chemistry and Physics</i> , 2012, 133, 611-616.	4.0	69
23	Calculation of Schmid factor in Mg alloys: Influence of stress state. <i>Scripta Materialia</i> , 2019, 171, 31-35.	5.2	68
24	A tilted weak texture processed by an asymmetric extrusion for magnesium alloy sheets. <i>Materials Letters</i> , 2013, 100, 29-31.	2.6	66
25	Evolution of microstructure and mechanical properties of a duplex Mg-Li alloy under extrusion with an increasing ratio. <i>Materials & Design</i> , 2014, 57, 121-127.	5.1	66
26	High temperature oxidation behavior of Mg-Y-Sn, Mg-Y, Mg-Sn alloys and its effect on corrosion property. <i>Applied Surface Science</i> , 2015, 353, 1013-1022.	6.1	66
27	Strategies for enhancing the room-temperature stretch formability of magnesium alloy sheets: a review. <i>Journal of Materials Science</i> , 2021, 56, 12965.	3.7	64
28	Highly Sensitive Nonenzymatic Glucose Sensor Based on 3D Ultrathin NiFe Layered Double Hydroxide Nanosheets. <i>Electroanalysis</i> , 2017, 29, 1755-1761.	2.9	63
29	Improvement of mechanical properties and reduction of yield asymmetry of extruded Mg-Sn-Zn alloy through Ca addition. <i>Journal of Alloys and Compounds</i> , 2019, 782, 1076-1086.	5.5	62
30	Tribological Behaviors of Graphene and Graphene Oxide as Water-Based Lubricant Additives for Magnesium Alloy/Steel Contacts. <i>Materials</i> , 2018, 11, 206.	2.9	61
31	Formation of the elliptical texture and its effect on the mechanical properties and stretch formability of dilute Mg-Sn-Y sheet by Zn addition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 259-275.	5.6	60
32	Influence of minor Ce additions on the microstructure and mechanical properties of Mg-1.0Sn-0.6Ca alloy. <i>Journal of Materials Science and Technology</i> , 2020, 37, 26-37.	10.7	58
33	The effects of orientation control via tension-compression on microstructural evolution and mechanical behavior of AZ31 Mg alloy sheet. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 411-422.	11.9	58
34	Improved corrosion resistance of AZ31 Mg alloy coated with MXenes/MgAl-LDHs composite layer modified with yttrium. <i>Electrochimica Acta</i> , 2021, 374, 137913.	5.2	58
35	Comparison of microstructures and mechanical properties of composite extruded AZ31 sheets. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 545-554.	11.9	57
36	Grain refining and mechanical properties of AZ31 alloy processed by accumulated extrusion bonding. <i>Journal of Alloys and Compounds</i> , 2018, 745, 599-608.	5.5	56

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37	The influence of CaO addition on grain refinement of cast magnesium alloys. <i>Scripta Materialia</i> , 2016, 114, 103-107.	5.2	54
38	A new approach to grain refinement of an Mg-Al cast alloy. <i>Journal of Alloys and Compounds</i> , 2010, 492, 95-98.	5.5	52
39	Unveiling annealing texture formation and static recrystallization kinetics of hot-rolled Mg-Al-Zn-Mn-Ca alloy. <i>Journal of Materials Science and Technology</i> , 2020, 43, 104-118.	10.7	51
40	Extraordinary room temperature tensile ductility of laminated Ti/Al composite: Roles of anisotropy and strain rate sensitivity. <i>International Journal of Plasticity</i> , 2020, 133, 102806.	8.8	50
41	Effects of deformation processes on morphology, microstructure and corrosion resistance of LDHs films on magnesium alloy AZ31. <i>Journal of Materials Science and Technology</i> , 2021, 64, 10-20.	10.7	50
42	Influence of an asymmetric shear deformation on microstructure evolution and mechanical behavior of AZ31 magnesium alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 590, 440-447.	5.6	49
43	An effective approach called the composite extrusion to improve the mechanical properties of AZ31 magnesium alloy sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 655, 339-345.	5.6	48
44	Effect of Li content on microstructure, texture and mechanical behaviors of the as-extruded Mg-Li sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 700, 59-65.	5.6	48
45	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
46	Tailoring texture and refining grain of magnesium alloy by differential speed extrusion process. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 612, 187-191.	5.6	47
47	A micro-alloyed Mg-Sn-Y alloy with high ductility at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 735, 131-144.	5.6	47
48	Ameliorating the mechanical properties of magnesium alloy: Role of texture. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 689, 395-403.	5.6	46
49	Effects of Fe concentration on microstructure and corrosion of Mg-6Al-1Zn-xFe alloys for fracturing balls applications. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2086-2098.	10.7	44
50	Improved mechanical properties of Mg-3Al-1Zn alloy sheets by optimizing the extrusion die angles: Microstructural and texture evolution. <i>Journal of Alloys and Compounds</i> , 2018, 762, 719-729.	5.5	43
51	Role of second phases on the corrosion resistance of Mg-Nd-Zr alloys. <i>Journal of Alloys and Compounds</i> , 2020, 849, 156619.	5.5	43
52	Effect of microalloyed Ca on the microstructure and corrosion behavior of extruded Mg alloy AZ31. <i>Journal of Alloys and Compounds</i> , 2020, 823, 153844.	5.5	43
53	Combined influence of Be and Ca on improving the high-temperature oxidation resistance of the magnesium alloy Mg-9Al-1Zn. <i>Corrosion Science</i> , 2017, 122, 1-11.	6.6	42
54	Effect of effective strain gradient on texture and mechanical properties of Mg-3Al-1Zn alloy sheets produced by asymmetric extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 706, 172-180.	5.6	42

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55	Tailoring the textures and mechanical properties of AZ31 alloy sheets using asymmetric composite extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 673, 606-615.	5.6	40
56	The effect of the existing state of Y on high temperature oxidation properties of magnesium alloys. <i>Applied Surface Science</i> , 2016, 370, 357-363.	6.1	40
57	Effect of texture symmetry on mechanical performance and corrosion resistance of magnesium alloy sheet. <i>Journal of Alloys and Compounds</i> , 2017, 723, 213-224.	5.5	40
58	Effect of substitution of Zn with Ni on microstructure evolution and mechanical properties of LPSO dominant Mg-Y-Zn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138735.	5.6	40
59	Effect of Nd addition on the microstructure and mechanical properties of extruded Mg-Gd-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 816, 141320.	5.6	40
60	Effect of Mg ₂₄ Y ₅ intermetallic particles on grain refinement of Mg-9Li alloy. <i>Intermetallics</i> , 2014, 45, 18-23.	3.9	39
61	Diffusion Kinetics in Mg-Cu Binary System. <i>Journal of Phase Equilibria and Diffusion</i> , 2015, 36, 613-619.	1.4	39
62	Effect of Al content on microstructure and mechanical properties of as-cast Mg-5Nd alloys. <i>Journal of Alloys and Compounds</i> , 2018, 737, 263-270.	5.5	39
63	A good balance between ductility and stretch formability of dilute Mg-Sn-Y sheet at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 736, 404-416.	5.6	39
64	Role of Al modification on the microstructure and mechanical properties of as-cast Mg-6Ce alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 645, 57-64.	5.6	38
65	Oxidation resistance of Mg-9Al-1Zn alloys micro-alloyed with Be. <i>Scripta Materialia</i> , 2016, 115, 38-41.	5.2	38
66	Influence of stress state on microstructure evolution of AZ31 Mg alloy rolled sheet during deformation at room temperature. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 715, 379-388.	5.6	37
67	Influence of Zn addition on the microstructure, tensile properties and work-hardening behavior of Mg-1Gd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 772, 138779.	5.6	37
68	Tribological properties of carbon nanotube/SiO ₂ combinations as water-based lubricant additives for magnesium alloy. <i>Journal of Materials Research and Technology</i> , 2021, 12, 138-149.	5.8	37
69	Influence of different extrusion processes on mechanical properties of magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 220-224.	11.9	36
70	Effects of Zn and Ca addition on microstructure and mechanical properties of as-extruded Mg-1.0Sn alloy sheet. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 746, 82-93.	5.6	35
71	Microstructure and mechanical behavior of the Mg-Mn-Ce magnesium alloy sheets. <i>Journal of Magnesium and Alloys</i> , 2014, 2, 8-12.	11.9	34
72	Effect of rolling paths and pass reductions on the microstructure and texture evolutions of AZ31 sheet with an initial asymmetrical texture distribution. <i>Journal of Alloys and Compounds</i> , 2019, 786, 394-408.	5.5	34

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73	Multiphase and multiphysics modeling of dendrite growth and gas porosity evolution during solidification. <i>Acta Materialia</i> , 2021, 214, 117005.	7.9	34
74	Strain path dependence of texture and property evolutions on rolled Mg-Li-Al-Zn alloy possessed of an asymmetric texture. <i>Journal of Alloys and Compounds</i> , 2017, 698, 771-785.	5.5	33
75	Improving the room-temperature formability of Mg-3Al-1Zn alloy sheet by introducing an orthogonal four-peak texture. <i>Journal of Alloys and Compounds</i> , 2019, 797, 443-455.	5.5	33
76	Grain refinement mechanism and improved mechanical properties in Mg-Sn alloy with trace Y addition. <i>Journal of Alloys and Compounds</i> , 2020, 820, 153122.	5.5	33
77	Novel Mg-Bi-Mn wrought alloys: The effects of extrusion temperature and Mn addition on their microstructures and mechanical properties. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 2588-2606.	11.9	33
78	Unusual texture formation in Mg-3Al-1Zn alloy sheets processed by slope extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 732, 1-5.	5.6	32
79	Role of Al content on the microstructure, texture and mechanical properties of Mg-3.5Ca based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 730, 303-316.	5.6	32
80	Effect of Li content on microstructure, texture and mechanical properties of cold rolled Mg-3Al-1Zn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 631, 189-195.	5.6	31
81	Improved oxidation resistance of Mg-9Al-1Zn alloy microalloyed with 60 wt% ppm Be attributed to the formation of a more protective (Mg,Be)O surface oxide. <i>Corrosion Science</i> , 2018, 132, 272-283.	6.6	31
82	Improved formability with theoretical critical shear strength transforming in Mg alloys with Sn addition. <i>Journal of Alloys and Compounds</i> , 2018, 764, 555-564.	5.5	31
83	Microstructure evolution and mechanical properties of friction stir welded dissimilar joints of as-extruded AM60 and AZ31 alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 479-489.	5.6	31
84	Generalisation of the oxide reinforcement model for the high oxidation resistance of some Mg alloys micro-alloyed with Be. <i>Corrosion Science</i> , 2019, 147, 357-371.	6.6	30
85	Intercalation of Y in Mg-Al layered double hydroxide films on anodized AZ31 and Mg-Y alloys to influence corrosion protective performance. <i>Applied Surface Science</i> , 2021, 551, 149432.	6.1	30
86	Effect of Ca addition on grain refinement of Mg-9Li-1Al alloy. <i>Journal of Magnesium and Alloys</i> , 2013, 1, 297-302.	11.9	29
87	Influence of Ca and Zn synergistic alloying on the microstructure, tensile properties and strain hardening of Mg-1Gd alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 785, 139344.	5.6	29
88	Understanding the enhanced ductility of Mg-Gd with Ca and Zn microalloying by slip trace analysis. <i>Journal of Materials Science and Technology</i> , 2021, 95, 20-28.	10.7	29
89	The influence of Gd on the recrystallisation, texture and mechanical properties of Mg alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 839, 142867.	5.6	29
90	Enhanced stretch formability at room temperature for Mg-Al-Zn/Mg-Y laminated composite via porthole die extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 731, 184-194.	5.6	28

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91	Improving mechanical properties of heterogeneous Mg-Gd alloy laminate via accumulated extrusion bonding. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 785, 139324.	5.6	28
92	Development of metal-organic framework (MOF) decorated graphene oxide/MgAl-layered double hydroxide coating via microstructural optimization for anti-corrosion micro-arc oxidation coatings of magnesium alloy. <i>Journal of Materials Science and Technology</i> , 2022, 130, 12-26.	10.7	28
93	Evolution of microstructure and mechanical properties of Mg-Al-Mn-Ce alloys under hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 628, 143-148.	5.6	27
94	Effect of Al ₂ Ca intermetallic compound addition on grain refinement of AZ31 magnesium alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 1284-1293.	4.2	27
95	Effect of Zn addition on the oxidation property of Mg-Y alloy at high temperatures. <i>Journal of Alloys and Compounds</i> , 2016, 687, 252-262.	5.5	27
96	Texture optimization on Mg sheets by preparing soft orientations of extension twinning for rolling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 760, 174-185.	5.6	27
97	Improving performance of friction stir welded AZ31/AM60 dissimilar joint by adjusting texture distribution and microstructure. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 778, 139088.	5.6	27
98	The oxidation behavior of Mg-Er binary alloys at 500°C. <i>Corrosion Science</i> , 2022, 195, 109961.	6.6	27
99	Tailoring microstructure and texture of Mg-Al-Zn alloy sheets through curve extrusion process for achieving low planar anisotropy. <i>Journal of Materials Science and Technology</i> , 2022, 113, 48-60.	10.7	27
100	Oxidation resistance of Mg-Y alloys at elevated temperatures and the protection performance of the oxide films. <i>Journal of Alloys and Compounds</i> , 2018, 749, 1054-1062.	5.5	26
101	A study of the corrosion behavior of AZ31 Mg alloy in depth direction after surface nanocrystallization. <i>Surface and Coatings Technology</i> , 2020, 396, 125968.	4.8	26
102	Influence of Zn on the microstructure and mechanical properties of Mg-Gd-Zr alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 843, 143136.	5.6	26
103	Recent advances in micro-alloyed wrought magnesium alloys: Theory and design. <i>Transactions of Nonferrous Metals Society of China</i> , 2022, 32, 1741-1780.	4.2	26
104	Effect of Li content on microstructure and mechanical property of Mg-Li ₃ (Al-Si) alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 2506-2513.	4.2	25
105	Enhanced formability of a magnesium alloy sheet via in-plane pre-strain paths. <i>Journal of Alloys and Compounds</i> , 2020, 814, 152278.	5.5	25
106	Microstructure evolution and mechanical properties of the Mg-Sm-Gd-Zn-Zr alloy during extrusion. <i>Journal of Materials Research and Technology</i> , 2021, 15, 2518-2528.	5.8	25
107	Effect of Sr on microstructure and aging behavior of Mg-Li alloys. <i>Progress in Natural Science: Materials International</i> , 2012, 22, 160-168.	4.4	24
108	Influence of pre-hardening on microstructure evolution and mechanical behavior of AZ31 magnesium alloy sheet. <i>Journal of Alloys and Compounds</i> , 2015, 621, 301-306.	5.5	24

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109	Improved the anisotropy of extruded Mg 3Li 3Al Zn alloy sheet by presetting grain re-orientation and subsequent annealing. <i>Journal of Alloys and Compounds</i> , 2016, 676, 64-73.	5.5	24
110	Enhanced strength and ductility AZ91 alloy with heterogeneous lamella structure prepared by pre-aging and low-temperature extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 812, 141094.	5.6	24
111	Effects of Sn on microstructure of as-cast and as-extruded Mg-9Li alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 904-908.	4.2	23
112	Effect of Cu addition on the microstructure, mechanical properties and degradation rate of Mg-2Gd alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 477-487.	5.8	23
113	Enhancement of Corrosion Resistance and Discharge Performance of Mg-5Li-3Al-1Zn Sheet for Mg-air Battery via Rolling. <i>Journal of the Electrochemical Society</i> , 2020, 167, 110529.	2.9	23
114	Twin-roll strip casting of magnesium alloys in China. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, s7-s11.	4.2	22
115	Effects of combined additions of Li and Al-5Ti-1B on the mechanical anisotropy of AZ31 magnesium alloy. <i>Materials & Design</i> , 2013, 46, 922-927.	5.1	22
116	Synergistic Effect of MoS ₂ and SiO ₂ Nanoparticles as Lubricant Additives for Magnesium Alloy-Steel Contacts. <i>Nanomaterials</i> , 2017, 7, 154.	4.1	22
117	Effect of precompression and subsequent annealing on the texture evolution and bendability of Mg-Gd binary alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 799, 140290.	5.6	22
118	Optimization in strength-ductility of heterogeneous Mg-13Gd alloy via small extrusion ratio combined with pre-aging. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 833, 142540.	5.6	22
119	Twinning, grain orientation, and texture variations in Mg alloy processed by pre-rolling. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 231-236.	4.4	21
120	Effect of pass reduction on distribution of shear bands and mechanical properties of AZ31B alloy sheets prepared by on-line heating rolling. <i>Journal of Materials Processing Technology</i> , 2020, 280, 116611.	6.3	21
121	Tuning the Active Sites of Atomically Thin Defective Bi ₁₂ O ₁₇ Cl ₂ via Incorporation of Subnanometer Clusters. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 9216-9223.	8.0	21
122	Effects of yttrium and strontium additions on as-cast microstructure of Mg-14Li-1Al alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2011, 21, 778-783.	4.2	20
123	The Corrosion Behavior of AZ91D Magnesium Alloy in Simulated Haze Aqueous Solution. <i>Materials</i> , 2018, 11, 970.	2.9	20
124	Optimizing the mechanical properties of friction stir welded dissimilar joint of AM60 and AZ31 alloys by controlling deformation behavior. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138839.	5.6	20
125	The high-temperature oxidation resistance properties of magnesium alloys alloyed with Gd and Ca. <i>Journal of Materials Science</i> , 2021, 56, 8745-8761.	3.7	20
126	The formation of intermetallic compounds during interdiffusion of Mg-Al/Mg-Ce diffusion couples. <i>Journal of Alloys and Compounds</i> , 2015, 619, 411-416.	5.5	19

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127	Fabrication of Mg/Mg composite with sleeve-core structure and its effect on room-temperature yield asymmetry via bimetal casting-co-extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 769, 138476.	5.6	19
128	Reduction per pass effect on texture traits and mechanical anisotropy of Mg-Al-Zn-Mn-Ca alloy subjected to unidirectional and cross rolling. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9607-9619.	5.8	19
129	Microstructure and mechanical properties with various pre-treatment and Zn content in Mg-Gd-Y-Zn alloys. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154873.	5.5	19
130	Effect of tension on edge crack of on-line heating rolled AZ31B magnesium alloy sheet. <i>Journal of Materials Research and Technology</i> , 2020, 9, 1988-1997.	5.8	18
131	Effects of Grain Size on the Corrosion and Discharge Behaviors of Mg-Y Binary Alloys for Mg-Air Batteries. <i>Journal of the Electrochemical Society</i> , 2020, 167, 130515.	2.9	18
132	Exploiting an as-extruded fine-grained Mg-Bi-Mn alloy with strength-ductility synergy via dilute Zn addition. <i>Journal of Alloys and Compounds</i> , 2022, 924, 166337.	5.5	18
133	Twin nucleation, twin growth and their effects on annealing strengths of Mg-Al-Zn-Mn sheets experienced different pre-compressive strains. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152310.	5.5	17
134	Microstructure and mechanical properties of 1060/7050 laminated composite produced via cross accumulative extrusion bonding and subsequent aging. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154094.	5.5	17
135	Improvement of planar isotropy, mechanical properties and corrosion resistance of extruded Mg-3Al-1Zn alloy sheet by special grain re-orientation. <i>Journal of Alloys and Compounds</i> , 2017, 721, 106-117.	5.5	17
136	Effect of Gd content on the microstructure, texture and mechanical properties of Mg-xGd-0.5Mn alloys. <i>Journal of Materials Research and Technology</i> , 2022, 20, 343-358.	5.8	17
137	Improved tension-compression performance of Mg-Al-Zn alloy processed by co-extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 76-81.	5.6	16
138	Study on mechanical behaviors and theoretical critical shear strength of cold-rolled AZ31 alloy with different Li additions. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 742, 241-254.	5.6	16
139	Deformation behavior and texture evolution in an extruded Mg Li sheet with non-basal texture during tensile deformation. <i>Materials Characterization</i> , 2020, 159, 110041.	4.4	16
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