Bin Jiang

List of Publications by Year
in descending order

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		53794	79698
258	8,053	45	73
papers	citations	h-index	g-index

259	259	259	3719
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effects of orientation control via tension-compression on microstructural evolution and mechanical behavior of AZ31 Mg alloy sheet. Journal of Magnesium and Alloys, 2022, 10, 411-422.	11.9	58
2	Grain size dependence of annealing strengthening of an extruded Mg-Gd-Zn alloy subjected to pre-compression deformation. Journal of Magnesium and Alloys, 2022, 10, 3576-3588.	11.9	13
3	Deformation Characterization, Twinning Behavior and Mechanical Properties of Dissimilar Friction-Stir-Welded AM60/AZ31 Alloys Joint During the Three-Point Bending. Acta Metallurgica Sinica (English Letters), 2022, 35, 727-744.	2.9	8
4	Microstructure and strengthening mechanism of hot-extruded ultralight Mg-Li-Al-Sn alloys with high strength. Journal of Materials Science and Technology, 2022, 103, 186-196.	10.7	48
5	Effect of laser shock on lamellar eutectic growth: A phase-field study. International Journal of Heat and Mass Transfer, 2022, 183, 122069.	4.8	3
6	Revealing the role of Al in the microstructural evolution and creep properties of Mg-2.85Nd-0.92Gd-0.41Zr-0.29Zn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142358.	5.6	4
7	The oxidation behavior of Mg-Er binary alloys at 500Âà„ƒ. Corrosion Science, 2022, 195, 109961.	6.6	27
8	Impact of asymmetry deformation on microstructure and mechanical properties of AZ31B alloy sheets deformed by on-line heating rolling. Progress in Natural Science: Materials International, 2022, 32, 96-103.	4.4	5
9	Anomalous effect of grain size on the room-temperature bendability of Mgâ€“Gd alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142397.	5.6	12
10	Tailoring microstructure and texture of Mgâ€“3Alâ€“1Zn alloy sheets through curve extrusion process for achieving low planar anisotropy. Journal of Materials Science and Technology, 2022, 113, 48-60.	10.7	27
11	Kinetics of the hydrogen absorption and desorption processes of hydrogen storage alloys: A review. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 32-48.	4.9	169
12	Optimization in strength-ductility of heterogeneous Mg-13Gd alloy via small extrusion ratio combined with pre-aging. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142540.	5.6	22
13	Ultrahigh plasticity Mgâ€“Gdâ€“Zr alloy. , 2022, , 83-118.		0
14	Effects of Zn Addition on the Microstructure and Mechanical Properties of As-Extruded Mg-2Al-0.5Ca Alloy. Metals, 2022, 12, 221.	2.3	6
15	â€œSolid solution strengthening and ductilizingâ€•theory for magnesium alloys. , 2022, , 47-82.		3
16	Improving the isotropy and formability of extruded Mg-2Gd-1Zn (wt.%) alloy sheet by introducing an ellipse texture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 836, 142699.	5.6	11
17	Processing Micro-Alloyed Mg-La Binary Alloy into a High-Performance Mg-Air Battery Anode via Extrusion. Journal of the Electrochemical Society, 2022, 169, 020575.	2.9	7
18	Investigation of bubble dynamics in a micro-channel with obstacles using a conservative phase-field lattice Boltzmann method. Physics of Fluids, 2022, 34, .	4.0	8

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19	Forming novel texture and enhancing the formability in Mgâ€“3Alâ€“Zn alloy sheets fabricated by transverse gradient extrusion. Journal of Materials Research and Technology, 2022, 18, 3143-3149.	5.8	8
20	Designing a Mixed Texture in Mg/Mg Laminated Composite via Bimetal Co-Extrusion to Ameliorate the Mechanical Anisotropy. Metals, 2022, 12, 637.	2.3	1
21	Relating Initial Texture to Deformation Behavior During Cold Rolling and Static Recrystallization Upon Subsequent Annealing of an Extruded WE43 Alloy. Acta Metallurgica Sinica (English Letters), 2022, 35, 1793-1811.	2.9	8
22	The influence of Gd on the recrystallisation, texture and mechanical properties of Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 839, 142867.	5.6	29
23	Numerical investigation of eutectic growth dynamics under convection by 3D phase-field method. Computers and Mathematics With Applications, 2022, 114, 83-94.	2.7	1
24	Novel Mg-Bi-Mn wrought alloys: The effects of extrusion temperature and Mn addition on their microstructures and mechanical properties. Journal of Magnesium and Alloys, 2022, 10, 2588-2606.	11.9	33
25	Influence of Zn on the microstructure and mechanical properties of Mg-Gd-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 843, 143136.	5.6	26
26	Effect of Ce addition on the highâ€temperature oxidation resistance of Mgâ€“Gd alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 1383-1392.	1.5	2
27	Simultaneous improvement of strength and ductility by Mn addition in extruded Mgâ€“Gdâ€“Zn alloy. Transactions of Nonferrous Metals Society of China, 2022, 32, 1460-1471.	4.2	8
28	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. Journal of Materials Science and Technology, 2022, 130, 12-26.	10.7	28
29	Comparison on Hot Tearing Behavior of Binary Mgâ€“Al, Mgâ€“Y, Mgâ€“Gd, Mgâ€“Zn, and Mgâ€“Ca Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 2986-3001.	2.2	7
30	Enhanced mechanical properties of Mg-3Al-1Zn alloy sheets through slope extrusion. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1343-1350.	4.9	7
31	Effects of Li addition on the microstructure and tensile properties of the extruded Mg-1Zn-xLi alloy. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1380-1387.	4.9	7
32	High-temperature mechanical properties of as-extruded AZ80 magnesium alloy at different strain rates. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1373-1379.	4.9	9
33	Improving the room-temperature bendability of Mg-3Al-1Zn alloy sheet by introducing a bimodal microstructure and the texture re-orientation. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1322-1333.	4.9	6
34	Editorial for special issue on developments of magnesium alloys for structural and functional applications. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 1307-1309.	4.9	4
35	Influence of rolling deformation on microstructures and mechanical properties of laminated Mg/Zr composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 849, 143460.	5.6	4
36	In-situ investigation on the microstructure evolution of Mg-2Gd alloys during the V-bending tests. Journal of Materials Science and Technology, 2022, 131, 167-176.	10.7	7

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37	Recent advances in micro-alloyed wrought magnesium alloys: Theory and design. Transactions of Nonferrous Metals Society of China, 2022, 32, 1741-1780.	4.2	26
38	Comparison of edge crack behavior of Mg sheets prepared by online heating rolling. Journal of Materials Research and Technology, 2022, 19, 5037-5048.	5.8	6
39	Effect of Gd content on the microstructure, texture and mechanical properties of Mg-xGd-0.5Mn alloys. Journal of Materials Research and Technology, 2022, 20, 343-358.	5.8	17
40	Exploiting an as-extruded fine-grained Mg-Bi-Mn alloy with strength-ductility synergy via dilute Zn addition. Journal of Alloys and Compounds, 2022, 924, 166337.	5.5	18
41	Correction: Xie et al. Synergistic Effect of MoS2 and SiO2 Nanoparticles as Lubricant Additives for Magnesium Alloyâ€“Steel Contacts. Nanomaterials 2017, 7, 154. Nanomaterials, 2022, 12, 2364.	4.1	1
42	Deformation Behavior of the Mgâ€“Znâ€“Caâ€“Ce Alloy Sheets Subjected to Uniaxial and Biaxial Tensile Tests. Metals and Materials International, 2021, 27, 4322-4332.	3.4	3
43	Microstructure and corrosion properties of Mgâ€“0.5Znâ€“0.2Caâ€“0.2Ce alloy with different processing conditions. Rare Metals, 2021, 40, 1924-1931.	7.1	10
44	Clarifying the roles of grain boundary and grain orientation on the corrosion and discharge processes of Î±-Mg based Mg-Li alloys for primary Mg-air batteries. Journal of Materials Science and Technology, 2021, 62, 128-138.	10.7	87
45	Grain refinement of Mg-3Y alloy using Mg-10Al2Y master alloy. Journal of Rare Earths, 2021, 39, 881-888.	4.8	6
46	Optimized Tension for AZ31B Thin Sheets Rolled with On-Line Heating Rolling. Acta Metallurgica Sinica (English Letters), 2021, 34, 227-238.	2.9	4
47	Effect of precompression and subsequent annealing on the texture evolution and bendability of Mgâ€“Gd binary alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 799, 140290.	5.6	22
48	Effects of deformation processes on morphology, microstructure and corrosion resistance of LDHs films on magnesium alloy AZ31. Journal of Materials Science and Technology, 2021, 64, 10-20.	10.7	50
49	Influence of Li Addition on the Microstructures and Mechanical Properties of Mgâ€“Li Alloys. Metals and Materials International, 2021, 27, 1403-1415.	3.4	12
50	The High-Solution Design of Magnesium Alloys. Minerals, Metals and Materials Series, 2021, , 27-31.	0.4	1
51	Characterization of newly developed friction stir-arc welding method for AM60/AZ31 dissimilar Mg alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140320.	5.6	13
52	Tuning the Active Sites of Atomically Thin Defective Bi₁₂O₁₇Cl₂ via Incorporation of Subnanometer Clusters. ACS Applied Materials & Interfaces, 2021, 13, 9216-9223.	8.0	21
53	Solution to Multiscale and Multiphysics Problems: A Phaseâ€Field Study of Fully Coupled Thermalâ€Soluteâ€Convection Dendrite Growth. Advanced Theory and Simulations, 2021, 4, 2000251.	2.8	13
54	Invariant plastic deformation mechanism in paramagnetic nickelâ€“iron alloys. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10

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55	Strategies for enhancing the room-temperature stretch formability of magnesium alloy sheets: a review. Journal of Materials Science, 2021, 56, 12965.	3.7	64
56	Enhanced strength and ductility AZ91 alloy with heterogeneous lamella structure prepared by pre-aging and low-temperature extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 812, 141094.	5.6	24
57	Local atomic structures of Gd and Zn atoms in extruded Mg-Gd-Zn alloys. Scripta Materialia, 2021, 195, 113720.	5.2	9
58	Improved corrosion resistance of AZ31 Mg alloy coated with MXenes/MgAl-LDHs composite layer modified with yttrium. Electrochimica Acta, 2021, 374, 137913.	5.2	58
59	Size effect of the width of beta-Li phase on the ductility of magnesiumâ€“lithium dual-phase alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141217.	5.6	8
60	Study on the Fine Grain Size and Microhardness at the Interface of AZ31/Mgâ€Ÿ Composites. Advanced Engineering Materials, 2021, 23, 2100214.	3.5	2
61	Tribological properties of carbon nanotube/SiO2 combinations as water-based lubricant additives for magnesium alloy. Journal of Materials Research and Technology, 2021, 12, 138-149.	5.8	37
62	The Effect of Sr Addition on Hot Tearing Susceptibility of Mg-1Ca-xSr Alloys. Journal of Materials Engineering and Performance, 2021, 30, 7645-7654.	2.5	8
63	Effect of Nd addition on the microstructure and mechanical properties of extruded Mg-Gd-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 816, 141320.	5.6	40
64	Intercalation of Y in Mg-Al layered double hydroxide films on anodized AZ31 and Mg-Y alloys to influence corrosion protective performance. Applied Surface Science, 2021, 551, 149432.	6.1	30
65	Enhanced Degradability of Mg-2Gd Alloy by Alloying Cu. Journal of the Electrochemical Society, 2021, 168, 071504.	2.9	4
66	Investigation on the Phase Relationship and Solidification Processes of Mg-rich Mg-Mn-Y Alloys. Journal of Phase Equilibria and Diffusion, 2021, 42, 441-451.	1.4	4
67	Corrosion and discharge behavior of Mgâ^'xLa alloys (x=0.0â^'0.8) as anode materials. Transactions of Nonferrous Metals Society of China, 2021, 31, 1979-1992.	4.2	14
68	Investigation into Atomic Diffusion at the Interface During Extrusion Welding of Magnesium and Magnesium Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4222-4233.	2.2	7
69	Multiphase and multiphysics modeling of dendrite growth and gas porosity evolution during solidification. Acta Materialia, 2021, 214, 117005.	7.9	34
70	Effect of Mn content on the microstructure and mechanical properties of Mgâ€“6Liâ€“4Zn-xMn alloys. Progress in Natural Science: Materials International, 2021, 31, 583-590.	4.4	13
71	Influence of Ce content on the microstructures and tensile properties of Mg-1Gd-0.5Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 823, 141675.	5.6	7
72	Thermo-mechanical properties of Crâ€“Coâ€“Ni alloys from longitudinal spin fluctuation theory. Applied Physics Letters, 2021, 119, 081904.	3.3	3

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73	Micro-Alloyed Mg-Al-Mn-La Anode for Mg-Air Batteries. Journal of the Electrochemical Society, 2021, 168, 090526.	2.9	7
74	Ameliorating mechanical properties and reducing anisotropy of as-extruded Mg-1.0Sn-0.5Ca alloy via Al addition. Progress in Natural Science: Materials International, 2021, 31, 722-730.	4.4	15
75	Modified Microstructures and Corrosion Behaviors of Mg-Gd-Cu Alloys through Annealing Treatment. Journal of the Electrochemical Society, 2021, 168, 101503.	2.9	3
76	Effect of Cu addition on the microstructure, mechanical properties and degradation rate of Mg-2Gd alloy. Journal of Materials Research and Technology, 2021, 15, 477-487.	5.8	23
77	Microstructure evolution and mechanical properties of the Mg-Sm-Gd-Zn-Zr alloy during extrusion. Journal of Materials Research and Technology, 2021, 15, 2518-2528.	5.8	25
78	Understanding the enhanced ductility of Mg-Gd with Ca and Zn microalloying by slip trace analysis. Journal of Materials Science and Technology, 2021, 95, 20-28.	10.7	29
79	The effects of second-alloying-element on the formability of Mg-Sn alloys in respect of the stacking fault energies of slip systems. Materials Today Communications, 2021, 29, 102829.	1.9	9
80	Non-uniform deformation behavior of dissimilar friction stir welded AM60/AZ31 joint and its influence on fracture. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 800, 140318.	5.6	9
81	The high-temperature oxidation resistance properties of magnesium alloys alloyed with Gd and Ca. Journal of Materials Science, 2021, 56, 8745-8761.	3.7	20
82	Discharge properties of Mg-Sn-Y alloys as anodes for Mg-air batteries. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1705-1715.	4.9	16
83	Intrinsic mechanical and interfacial characteristics of precipitates contributing to the room and elevated temperature strength in Mgâ€“Snâ€“Y alloys. Journal of Materials Research and Technology, 2021, 15, 3928-3941.	5.8	7
84	Comparison of room-temperature stretch formability of the as extruded Mgâ€“Gd alloys with different double-peak pole spacing. Journal of Materials Research and Technology, 2021, 15, 4838-4851.	5.8	12
85	A Novel Mgâ€“CaMgSn Master Alloy for Grain Refinement in Mgâ€“Al-Based Alloys. Metals, 2021, 11, 1722.	2.3	3
86	Enhanced formability of a magnesium alloy sheet via in-plane pre-strain paths. Journal of Alloys and Compounds, 2020, 814, 152278.	5.5	25
87	Influence of minor Ce additions on the microstructure and mechanical properties of Mg-1.0Sn-0.6Ca alloy. Journal of Materials Science and Technology, 2020, 37, 26-37.	10.7	58
88	Twin nucleation, twin growth and their effects on annealing strengths of Mgâ€“Alâ€“Znâ€“Mn sheets experienced different pre-compressive strains. Journal of Alloys and Compounds, 2020, 815, 152310.	5.5	17
89	Improving Strength and Formability of Rolled AZ31 Sheet by Two-Step Twinning Deformation. Jom, 2020, 72, 2551-2560.	1.9	13
90	Fabrication of Mg/Mg composite with sleeve-core structure and its effect on room-temperature yield asymmetry via bimetal casting-co-extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 769, 138476.	5.6	19

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91	Effect of grain size on the luminescent properties of Ce3+ doped Y3Al5O12 ceramic phosphor plates. Ceramics International, 2020, 46, 10452-10456.	4.8	15
92	Unveiling annealing texture formation and static recrystallization kinetics of hot-rolled Mg-Al-Zn-Mn-Ca alloy. Journal of Materials Science and Technology, 2020, 43, 104-118.	10.7	51
93	Optimizing the mechanical properties of friction stir welded dissimilar joint of AM60 and AZ31 alloys by controlling deformation behavior. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138839.	5.6	20
94	Effect of tension on edge crack of on-line heating rolled AZ31B magnesium alloy sheet. Journal of Materials Research and Technology, 2020, 9, 1988-1997.	5.8	18
95	Grain refinement mechanism and improved mechanical properties in Mgâ€“Sn alloy with trace Y addition. Journal of Alloys and Compounds, 2020, 820, 153122.	5.5	33
96	Influence of Zn addition on the microstructure, tensile properties and work-hardening behavior of Mg-1Gd alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138779.	5.6	37
97	Deformation behavior and texture evolution in an extruded Mg Li sheet with non-basal texture during tensile deformation. Materials Characterization, 2020, 159, 110041.	4.4	16
98	Effect of substitution of Zn with Ni on microstructure evolution and mechanical properties of LPSO dominant Mgâ€“Yâ€“Zn alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138735.	5.6	40
99	Effect of Gd addition on the microstructure and age hardening behavior of Mg-6Zn-1Mn-4Sn (wt.%) alloy. Journal of Materials Research and Technology, 2020, 9, 12737-12746.	5.8	9
100	Role of second phases on the corrosion resistance of Mg-Nd-Zr alloys. Journal of Alloys and Compounds, 2020, 849, 156619.	5.5	43
101	Reduction per pass effect on texture traits and mechanical anisotropy of Mgâ€“Alâ€“Znâ€“Mnâ€“Ca alloy subjected to unidirectional and cross rolling. Journal of Materials Research and Technology, 2020, 9, 9607-9619.	5.8	19
102	Effect of Al on the microstructure, corrosion behavior and mechanical properties of Mg-4Li. Anti-Corrosion Methods and Materials, 2020, 67, 31-37.	1.5	6
103	Microstructure Distribution and Tensile Anisotropy of Dissimilar Friction Stir Welded AM60 and AZ31 Magnesium Alloys. Acta Metallurgica Sinica (English Letters), 2020, 33, 1487-1504.	2.9	9
104	Effects of annealing temperature on microstructure and mechanical properties of LZ91 alloy. Materials Science and Technology, 2020, 36, 2010-2017.	1.6	10
105	Effects of heat treatment on the microstructural evolution and creep resistance of Elektron21 alloy and its nanocomposite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 789, 139669.	5.6	7
106	A study of the corrosion behavior of AZ31 Mg alloy in depth direction after surface nanocrystallization. Surface and Coatings Technology, 2020, 396, 125968.	4.8	26
107	Microstructure and mechanical properties with various pre-treatment and Zn content in Mg-Gd-Y-Zn alloys. Journal of Alloys and Compounds, 2020, 831, 154873.	5.5	19
108	Extraordinary room temperature tensile ductility of laminated Ti/Al composite: Roles of anisotropy and strain rate sensitivity. International Journal of Plasticity, 2020, 133, 102806.	8.8	50

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109	Influence of Ca and Zn synergistic alloying on the microstructure, tensile properties and strain hardening of Mg-1Gd alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 785, 139344.	5.6	29
110	Microstructure and corrosion behavior of Mg-Sc binary alloys in 3.5 wt.% NaCl solution. Corrosion Science, 2020, 174, 108831.	6.6	90
111	Interfacial Reactions between Mg-40Al and Mg-30Y Master Alloys. Metals, 2020, 10, 825.	2.3	3
112	Achieving High Ductility in Hot-Rolled Mg-xZn-0.2Ca-0.2Ce Sheet by Zn Addition. Jom, 2020, 72, 1607-1618.	1.9	8
113	Improving performance of friction stir welded AZ31/AM60 dissimilar joint by adjusting texture distribution and microstructure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 778, 139088.	5.6	27
114	Microstructure and mechanical properties of 1060/7050 laminated composite produced via cross accumulative extrusion bonding and subsequent aging. Journal of Alloys and Compounds, 2020, 826, 154094.	5.5	17
115	Effect of microalloyed Ca on the microstructure and corrosion behavior of extruded Mg alloy AZ31. Journal of Alloys and Compounds, 2020, 823, 153844.	5.5	43
116	Effect of pass reduction on distribution of shear bands and mechanical properties of AZ31B alloy sheets prepared by on-line heating rolling. Journal of Materials Processing Technology, 2020, 280, 116611.	6.3	21
117	Superhydrophobic coatings for corrosion protection of magnesium alloys. Journal of Materials Science and Technology, 2020, 52, 100-118.	10.7	164
118	Mechanical behavior and microstructure evolution for extruded AZ31 sheet under side direction strain. Progress in Natural Science: Materials International, 2020, 30, 270-277.	4.4	10
119	Improving mechanical properties of heterogeneous Mg-Gd alloy laminate via accumulated extrusion bonding. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 785, 139324.	5.6	28
120	Effects of Surface Terminations of 2D Bi₂WO₆ on Photocatalytic Hydrogen Evolution from Water Splitting. ACS Applied Materials & Interfaces, 2020, 12, 20067-20074.	8.0	78
121	Pre-strain effect on twinning and de-twinning behaviors of Mg-3Li alloy traced by quasi-in-situ EBSD. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 798, 140069.	5.6	12
122	General hierarchical structure to solve transport phenomena with dissimilar time scales: Application in large-scale three-dimensional thermosolutal phase-field problems. Physical Review E, 2020, 102, 043313.	2.1	8
123	Enhancement of Corrosion Resistance and Discharge Performance of Mgâ€“5Liâ€“3Alâ€“1Zn Sheet for Mg-air Battery via Rolling. Journal of the Electrochemical Society, 2020, 167, 110529.	2.9	23
124	Effect of Microstructure on the Corrosion Behavior of as-cast and Extruded Mgâ€“Snâ€“Y Alloys. Journal of the Electrochemical Society, 2020, 167, 121503.	2.9	9
125	Effects of Grain Size on the Corrosion and Discharge Behaviors of Mgâ€“Y Binary Alloys for Mg-Air Batteries. Journal of the Electrochemical Society, 2020, 167, 130515.	2.9	18
126	Effects of Texture and Discharge Products on the Discharge Performance of Mg Anodes for Mg Air Batteries. Journal of the Electrochemical Society, 2020, 167, 130528.	2.9	14

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127	Effects of Gd on the microstructure and mechanical properties of Mgâ€“Li dual-phase alloys. International Journal of Materials Research, 2020, 111, 432-438.	0.3	0
128	Effect of Compressive Deformation on Wear Property of Extruded ZK60 Magnesium Alloy. Tribology Transactions, 2019, 62, 1-7.	2.0	13
129	Twinning, grain orientation, and texture variations in Mg alloy processed by pre-rolling. Progress in Natural Science: Materials International, 2019, 29, 231-236.	4.4	21
130	Effect of Ce addition on hot tearing behavior of AZ91 alloy. Progress in Natural Science: Materials International, 2019, 29, 453-456.	4.4	12
131	Understanding solid solution strengthening at elevated temperatures in a creep-resistant Mgâ€“Gdâ€“Ca alloy. Acta Materialia, 2019, 181, 185-199.	7.9	71
132	Effects of Zn and Ca addition on microstructure and mechanical properties of as-extruded Mg-1.0Sn alloy sheet. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 82-93.	5.6	35
133	Calculation of Schmid factor in Mg alloys: Influence of stress state. Scripta Materialia, 2019, 171, 31-35.	5.2	68
134	Texture optimization on Mg sheets by preparing soft orientations of extension twinning for rolling. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 760, 174-185.	5.6	27
135	Improving the room-temperature formability of Mg-3Al-1Zn alloy sheet by introducing an orthogonal four-peak texture. Journal of Alloys and Compounds, 2019, 797, 443-455.	5.5	33
136	Microstructure evolution and mechanical properties of friction stir welded dissimilar joints of as-extruded AM60 and AZ31 alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 479-489.	5.6	31
137	Effects of Fe concentration on microstructure and corrosion of Mg-6Al-1Zn-xFe alloys for fracturing balls applications. Journal of Materials Science and Technology, 2019, 35, 2086-2098.	10.7	44
138	Microscopic deformation compatibility during biaxial tension in AZ31 Mg alloy rolled sheet at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 1-10.	5.6	13
139	Effect of rolling paths and pass reductions on the microstructure and texture evolutions of AZ31 sheet with an initial asymmetrical texture distribution. Journal of Alloys and Compounds, 2019, 786, 394-408.	5.5	34
140	Effect of Li content on microstructure and mechanical property of Mgâ^'xLiâ^'3(Alâ^'Si) alloys. Transactions of Nonferrous Metals Society of China, 2019, 29, 2506-2513.	4.2	25
141	Comparison of microstructures and mechanical properties of composite extruded AZ31 sheets. Journal of Magnesium and Alloys, 2019, 7, 545-554.	11.9	57
142	Improvement of mechanical properties and reduction of yield asymmetry of extruded Mg-Sn-Zn alloy through Ca addition. Journal of Alloys and Compounds, 2019, 782, 1076-1086.	5.5	62
143	Study on mechanical behaviors and theoretical critical shear strength of cold-rolled AZ31 alloy with different Li additions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 742, 241-254.	5.6	16
144	Tribological performances of SiO2/graphene combinations as water-based lubricant additives for magnesium alloy rolling. Applied Surface Science, 2019, 475, 847-856.	6.1	94

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145	Formation of the elliptical texture and its effect on the mechanical properties and stretch formability of dilute Mg-Sn-Y sheet by Zn addition. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 746, 259-275.	5.6	60
146	Generalisation of the oxide reinforcement model for the high oxidation resistance of some Mg alloys micro-alloyed with Be. Corrosion Science, 2019, 147, 357-371.	6.6	30
147	Hot Deformation Behavior and Microstructural Evolution of Twin-Roll-Casting Mg Alloy during High-Temperature Compression. Advances in Materials Science and Engineering, 2019, 2019, 1-7.	1.8	207
148	Grain refining and mechanical properties of AZ31 alloy processed by accumulated extrusion bonding. Journal of Alloys and Compounds, 2018, 745, 599-608.	5.5	56
149	Influence of Continuous Bending Process on Texture Evolution and Mechanical Properties of AZ31 Magnesium Alloy. Acta Metallurgica Sinica (English Letters), 2018, 31, 225-233.	2.9	10
150	CRSS of Mg-X(X=Zn, Y) Binary Solid Solution via First-Principles Study. Materials Science Forum, 2018, 913, 614-619.	0.3	2
151	First Principle and Experimental Study for Site Preferences of Formability Improved Alloying Elements in Mg Crystal. Metals and Materials International, 2018, 24, 830-839.	3.4	3
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