

Xianhua Chen

List of Publications by Year in descending order

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citations

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69
all docs

69
docs citations

69
times ranked

1410
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion of Mg Alloys. , 2022, , 46-74.		3
2	A reverse design model for high-performance and low-cost magnesium alloys by machine learning. Computational Materials Science, 2022, 201, 110881.	3.0	14
3	Microstructure, texture and mechanical properties of the rolled high modulus Mg-Y-Zn-Al-Li alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142242.	5.6	19
4	Compressive deformation of as-extruded LPSO-containing Mg alloys at different temperatures. Journal of Materials Research and Technology, 2022, 16, 944-959.	5.8	14
5	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
6	Effect of micron-Ti particles on microstructure and mechanical properties of Mg-3Al-1Zn based composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 833, 142526.	5.6	45
7	A review of the design, processes, and properties of Mg-based composites. Nanotechnology Reviews, 2022, 11, 712-730.	5.8	27
8	Effect of interfacial structure on grain refinement and strength of Ti particles reinforced AZ31 composites. Vacuum, 2022, 203, 111287.	3.5	13
9	First-principles study on the thermodynamic, electronic and mechanical properties of Mg-Al-Si ternary compounds. Journal of Materials Research and Technology, 2022, 19, 2848-2862.	5.8	7
10	Microstructure, mechanical properties and wear resistance of Ti particles reinforced AZ31 magnesium matrix composites. Journal of Magnesium and Alloys, 2022, 10, 2266-2279.	11.9	53
11	Microstructure and mechanical properties of LPSO dominant Mg-2Y-Cu-TM (TM=Cu, Zn, Co, Ni) alloys. Materials Characterization, 2022, 191, 112111.	4.4	9
12	Effect of Zener-Hollomon Parameter on High-Temperature Deformation Behaviors of Mg-6Zn-1.5Y-0.5Ce-0.4Zr Alloy. Acta Metallurgica Sinica (English Letters), 2021, 34, 606-616.	2.9	6
13	Work hardening behavior of Ti particle reinforced AZ91 composite prepared by spark plasma sintering. Vacuum, 2021, 183, 109833.	3.5	20
14	Temperature Effect on Strain Hardening Behaviors of As-Extruded Binary Magnesium Alloys. Advanced Engineering Materials, 2021, 23, 2001104.	3.5	0
15	Effect of Mn Addition on Melt Purification and Fe Tolerance in Mg Alloys. Jom, 2021, 73, 892-902.	1.9	24
16	New high-modulus and high-strength Mg-Gd-Ag-Mn-Ge alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 805, 140559.	5.6	27
17	Size effect of the width of beta-Li phase on the ductility of magnesium-lithium dual-phase alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 814, 141217.	5.6	8
18	Improving Strength and Electromagnetic Shielding Effectiveness of Mg-Sn-Zn-Ca-Ce Alloy by Sn Addition. Advanced Engineering Materials, 2021, 23, 2100166.	3.5	15

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19	Determination of ultra-trace levels of titanium in human serum using inductively coupled plasma tandem mass spectrometry based on O ₂ /H ₂ reaction gas. <i>Analytica Chimica Acta</i> , 2021, 1165, 338564.	5.4	3
20	Altered age-hardening behavior in the ultrafine-grained surface layer of Mg-Zn-Y-Ce-Zr alloy processed by sliding friction treatment. <i>Journal of Materials Science and Technology</i> , 2021, 78, 20-29.	10.7	13
21	Large strain hardening of magnesium containing <i>in situ</i> nanoparticles. <i>Nanotechnology Reviews</i> , 2021, 10, 1018-1030.	5.8	8
22	A review on electromagnetic shielding magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1906-1921.	11.9	75
23	A simultaneous increase of elastic modulus and ductility by Al and Li additions in Mg-Gd-Zn-Zr-Ag alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 771, 138576.	5.6	27
24	Effect of impurity reduction on dynamic recrystallization, texture evolution and mechanical anisotropy of rolled AZ31 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 773, 138741.	5.6	7
25	Review of Mg alloy corrosion rates. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 989-998.	11.9	212
26	The effects of Ca and Mn on the microstructure, texture and mechanical properties of Mg-4 Zn alloy. <i>Journal of Magnesium and Alloys</i> , 2020, , .	11.9	59
27	Microstructure and compressive properties of Mg-9Al composite reinforced with Ni-coated graphene nanosheets. <i>Vacuum</i> , 2020, 181, 109629.	3.5	23
28	Effect of micro-alloying Ca on microstructure, texture and mechanical properties of Mg-Zn-Y-Ce alloys. <i>Progress in Natural Science: Materials International</i> , 2020, 30, 213-220.	4.4	10
29	Microstructural evolution in the ultrafine-grained surface layer of Mg-Zn-Y-Ce-Zr alloy processed by sliding friction treatment. <i>Materials Characterization</i> , 2020, 166, 110423.	4.4	12
30	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
31	Development of a novel Mg-Y-Zn-Al-Li alloy with high elastic modulus and damping capacity. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 790, 139744.	5.6	41
32	Microstructure, creep behavior and corrosion resistance in the ultrafine-grained surface layer of Mg-6Zn-0.2Y-0.4Ce-0.5Zr alloy processed by surfacing friction treatment. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 776, 138995.	5.6	10
33	Effects of Gd on the microstructure and mechanical properties of Mg-Li dual-phase alloys. <i>International Journal of Materials Research</i> , 2020, 111, 432-438.	0.3	0
34	Microstructure and mechanical properties of rolled Mg-Gd-Zn-Zr-Ag-Al-Li alloys. <i>International Journal of Materials Research</i> , 2020, 111, 645-653.	0.3	2
35	Effect of Heat Treatment on Microstructure and Mechanical Properties of Extruded Mg-4Zn-1.5Al-2Sn Alloy. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4565-4573.	2.5	0
36	Effect of Sn Addition on Microstructure and Corrosion Behavior of As-Extruded Mg-5Zn-4Al Alloy. <i>Materials</i> , 2019, 12, 2069.	2.9	14

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37	Simultaneously improving elastic modulus and damping capacity of extruded Mg-Gd-Y-Zn-Mn alloy via alloying with Si. <i>Journal of Alloys and Compounds</i> , 2019, 810, 151857.	5.5	43
38	Microstructures and mechanical properties of nano carbides reinforced CoCrFeMnNi high entropy alloys. <i>Journal of Alloys and Compounds</i> , 2019, 792, 170-179.	5.5	58
39	Alloy Design Strategies of the Native Anti-corrosion Magnesium Alloy. <i>Minerals, Metals and Materials Series</i> , 2019, , 169-173.	0.4	4
40	Strain Hardening Behavior in Mg-Al Alloys at Room Temperature. <i>Advanced Engineering Materials</i> , 2019, 21, 1801062.	3.5	14
41	Strain hardening behavior of Mg-Y alloys after extrusion process. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 672-680.	11.9	65
42	Strain hardening of as-extruded Mg-xZn (x=1, 2, 3 and 4 wt%) alloys. <i>Journal of Materials Science and Technology</i> , 2019, 35, 142-150.	10.7	105
43	Effects of Y and Zn additions on electrical conductivity and electromagnetic shielding effectiveness of Mg-Y-Zn alloys. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1074-1080.	10.7	67
44	Effect of secondary phase on the electromagnetic shielding effectiveness of magnesium alloy. <i>Scientific Reports</i> , 2018, 8, 1625.	3.3	33
45	Effect of Sn content on strain hardening behavior of as-extruded Mg-Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 713, 244-252.	5.6	115
46	Thermal conductivity and mechanical properties of Sm-containing Mg-Zn-Zr alloys. <i>Materials Science and Technology</i> , 2018, 34, 138-144.	1.6	13
47	Microstructure and Mechanical Properties of Mg-6Al-1Sn-0.3Mn Alloy Sheet Fabricated through Extrusion Combined with Rolling. <i>Crystals</i> , 2018, 8, 356.	2.2	6
48	Enhanced mechanical properties of Mg-Gd-Y-Zn-Mn alloy by tailoring the morphology of long period stacking ordered phase. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 733, 267-275.	5.6	71
49	Microstructure and Electromagnetic Shielding Properties of Mg-Zn-Ce-Y-Zr Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4722-4731.	2.5	8
50	The effect of Y addition on recrystallization and mechanical properties of Mg-6Zn-xY-0.5Ce-0.4Zr alloys. <i>Vacuum</i> , 2018, 155, 445-455.	3.5	39
51	Effect of Nd on microstructure and mechanical properties of as-extruded Mg-Y-Zr-Nd alloy. <i>Journal of Materials Science and Technology</i> , 2017, 33, 926-934.	10.7	52
52	Effects of Sm addition on electromagnetic interference shielding property of Mg-Zn-Zr alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	14
53	Effects of Sn addition on microstructure and mechanical properties of Mg-Zn-Al alloys. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 695-702.	4.4	35
54	A Review on Casting Magnesium Alloys: Modification of Commercial Alloys and Development of New Alloys. <i>Journal of Materials Science and Technology</i> , 2016, 32, 1211-1221.	10.7	400

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55	A novel approach to melt purification of magnesium alloys. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 8-14.	11.9	54
56	A new high-strength Mg-Zn-Ce-Y-Zr magnesium alloy. <i>Journal of Alloys and Compounds</i> , 2016, 688, 537-541.	5.5	52
57	High temperature formability of graphene nanoplatelets-AZ31 composites fabricated by stir-casting method. <i>Journal of Magnesium and Alloys</i> , 2016, 4, 270-277.	11.9	80
58	Microstructure, texture, mechanical properties and electromagnetic shielding effectiveness of Mg-Zn-Zr-Ce alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 669, 259-268.	5.6	65
59	Strength improvement in ZK60 magnesium alloy induced by pre-deformation and heat treatment. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2016, 31, 393-398.	1.0	13
60	Microstructure and mechanical properties of as-extruded and as-aged Mg-Zn-Al-Sn alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 656, 165-173.	5.6	38
61	Effect of Y and Ce additions on microstructure and mechanical properties of Mg-Zn-Zr alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2015, 644, 247-253.	5.6	65
62	Microstructure, electromagnetic shielding effectiveness and mechanical properties of Mg-Zn-Cu-Zr alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 197, 67-74.	3.5	64
63	Microstructure, electromagnetic shielding effectiveness and mechanical properties of Mg-Zn-Y-Zr alloys. <i>Materials & Design</i> , 2015, 65, 360-369.	5.1	91
64	Improved mechanical properties in AZ31 magnesium alloys induced by impurity reduction. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2013, 28, 1207-1211.	1.0	6
65	Enhanced electromagnetic interference shielding in ZK60 magnesium alloy by aging precipitation. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 872-878.	4.0	47
66	Effect of heat treatment on electromagnetic shielding effectiveness of ZK60 magnesium alloy. <i>Materials & Design</i> , 2012, 42, 327-333.	5.1	63
67	Effect of impurity reduction on rollability of AZ31 magnesium alloy. <i>Journal of Materials Science</i> , 2012, 47, 514-520.	3.7	13
68	Thermal Stability and Tensile Properties of Electrodeposited Cu-Bi Alloy. <i>Journal of Materials Engineering and Performance</i> , 2011, 20, 481-486.	2.5	10
69	Effect of heat treatment on strain hardening of ZK60 Mg alloy. <i>Materials & Design</i> , 2011, 32, 1526-1530.	5.1	103