Jia She

List of Publications by Year
in descending order

63	2,960	218677	168389
papers	citations	26 h-index	53 g-index

63	63	63	1586
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Latest research advances on magnesium and magnesium alloys worldwide. Journal of Magnesium and Alloys, 2020, 8, 1-41.	11.9	852
2	Enhanced tensile properties of magnesium composites reinforced with graphene nanoplatelets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 630, 36-44.	5.6	167
3	Effect of graphene nanoplatelets (GNPs) addition on strength and ductility of magnesium-titanium alloys. Journal of Magnesium and Alloys, 2013, 1, 242-248.	11.9	135
4	Development of magnesium-graphene nanoplatelets composite. Journal of Composite Materials, 2015, 49, 285-293.	2.4	121
5	Enhancing mechanical properties of Mgâ€“Sn alloys by combining addition of Ca and Zn. Materials and Design, 2015, 83, 736-744.	7.0	118
6	Thermal and electrical conductivity of binary magnesium alloys. Journal of Materials Science, 2014, 49, 3107-3124.	3.7	114
7	High strength and superior ductility of an ultra-fine grained magnesiumâ€“manganese alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 648, 202-207.	5.6	85
8	High temperature formability of graphene nanoplatelets-AZ31 composites fabricated by stir-casting method. Journal of Magnesium and Alloys, 2016, 4, 270-277.	11.9	80
9	Microstructure and mechanical properties of Mgâ€“Alâ€“Sn extruded alloys. Journal of Alloys and Compounds, 2016, 657, 893-905.	5.5	77
10	Effects of Mn addition on the microstructures, mechanical properties and work-hardening of Mg-1Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 754, 778-785.	5.6	75
11	Improved mechanical proprieties of â€œmagnesium based compositesâ€•with titaniumâ€“aluminum hybrids. Journal of Magnesium and Alloys, 2015, 3, 1-9.	11.9	72
12	Effect of high Mn content on development of ultra-fine grain extruded magnesium alloy. Materials and Design, 2016, 90, 7-12.	7.0	64
13	Role of second phases and grain boundaries on dynamic recrystallization behavior in ZK60 magnesium alloy. Journal of Alloys and Compounds, 2021, 861, 157958.	5.5	55
14	Novel low-cost magnesium alloys with high yield strength and plasticity. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 766, 138332.	5.6	53
15	Significant improvement in yield stress of Mg-Gd-Mn alloy by forming bimodal grain structure. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 803, 140569.	5.6	47
16	Correlation on the Electrical and Thermal Conductivity for Binary Mgâ€“Al and Mgâ€“Zn Alloys. International Journal of Thermophysics, 2013, 34, 1336-1346.	2.1	46
17	Effect of high content of manganese on microstructure, texture and mechanical properties of magnesium alloy. Materials Characterization, 2018, 136, 310-317.	4.4	46
18	Improvement of strength-ductility balance by Mn addition in Mgâ€“Ca extruded alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 772, 138796.	5.6	45

#	Article	IF	Citations
19	Effect of texture on the electromagnetic shielding property of magnesium alloy. Materials Letters, 2015, 157, 73-76.	2.6	41
20	Development of high strength and ductility in Mgâ€“2Zn extruded alloy by high content Mn-alloying. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 765, 138203.	5.6	40
21	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
22	Dynamic precipitation and enhanced mechanical properties of ZK60 magnesium alloy achieved by low temperature extrusion. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 829, 142143.	5.6	38
23	A strategy to regulate the microstructure and properties of Mg-2.0Zn-1.5Mn magnesium alloy by tracing the existence of Mn element. Journal of Alloys and Compounds, 2022, 890, 161789.	5.5	32
24	Development of high-strength, low-cost wrought Mgâ€“2.0 mass% Zn alloy with high Mn content. Progress in Natural Science: Materials International, 2016, 26, 630-635.	4.4	31
25	High conductivity and high strength Mgâ€“Znâ€“Cu alloy. Materials Science and Technology, 2014, 30, 759-764.	1.6	29
26	A review of the design, processes, and properties of Mg-based composites. Nanotechnology Reviews, 2022, 11, 712-730.	5.8	27
27	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
28	Novel on-line twist extrusion process for bulk magnesium alloys. Materials and Design, 2019, 182, 108011.	7.0	25
29	Novel continuous forging extrusion in a one-step extrusion process for bulk ultrafine magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 764, 138144.	5.6	24
30	Microstructures and mechanical properties of as-extruded Mgâ€“5Snâ€“1Znâ€“xAl (x=1, 3 and 5) alloys. Progress in Natural Science: Materials International, 2015, 25, 267-275.	4.4	23
31	Achieving superior combination of yield strength and ductility in Mgâ€“Mnâ€“Al alloys via ultrafine grain structure. Journal of Materials Research and Technology, 2021, 15, 1252-1265.	5.8	22
32	Effects of optimizing continuous forging extrusion process on the microstructure and mechanical properties of AZ31 magnesium alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142892.	5.6	22
33	Novel in situ synthesized zirconium matrix composites reinforced with ZrC particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 6454-6458.	5.6	21
34	Regulating Precipitates by Simple Cold Deformations to Strengthen Mg Alloys: A Review. Materials, 2019, 12, 2507.	2.9	18
35	Microstructure and mechanical properties of asextruded Mgâ€“‹i›x‹/i›Alâ€“5Snâ€“0Â·3Mn alloys (‹i›x‹/i›â€Š=â€Š1, 3, 6 and 9). Materials Science and Technology, 2015, 31, 344-348.	1.6	17
36	In situ synthesized (ZrB2+ZrC) hybrid short fibers reinforced Zr matrix composites for nuclear applications. International Journal of Refractory Metals and Hard Materials, 2011, 29, 401-404.	3.8	15

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37	Experimental study of Alâ€“Zrâ€“Y system phase equilibria at 773K. Journal of Alloys and Compounds, 2010, 497, 118-120.	5.5	14
38	High volume intermetallics reinforced Ti-based composites in situ synthesized from Tiâ€“Siâ€“Sn ternary system. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3871-3875.	5.6	14
39	A reverse design model for high-performance and low-cost magnesium alloys by machine learning. Computational Materials Science, 2022, 201, 110881.	3.0	14
40	The phase equilibria in the Tiâ€“Cuâ€“Y ternary system at 773 K. Journal of Alloys and Compounds, 2009, 485, 261-263.	5.5	13
41	The role of Nd on the microstructural evolution and compressive behavior of Tiâ€“Si alloys. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 560, 583-588.	5.6	12
42	Phase equilibria in the Alâ€“Zrâ€“Ce system at 773K. Journal of Alloys and Compounds, 2010, 491, 200-202.	5.5	11
43	Effect of Cu/Zn on microstructure and mechanical properties of extruded Mgâ€“Sn alloys. Materials Science and Technology, 2016, 32, 1240-1248.	1.6	11
44	The Edge Crack, Texture Evolution, and Mechanical Properties of Mg-1Al-1Sn-Mn Alloy Sheets Prepared Using On-Line Heating Rolling. Metals, 2018, 8, 860.	2.3	11
45	Study on the effects of manganese on the grain structure and mechanical properties of Mg-0.5Ce alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 821, 141567.	5.6	11
46	Activations of stacking faults in the calcium-containing magnesium alloys under compression. Journal of Alloys and Compounds, 2017, 692, 898-902.	5.5	10
47	The phase relationships in the Gdâ€“Tiâ€“Sn ternary system at 473 K and the new compound GdSn4Ti6. Journal of Alloys and Compounds, 2010, 489, 384-388.	5.5	9
48	Effect of Mg2Sn Intermetallic on the Grain Refinement in As-cast AM Series Alloy. Journal of Materials Engineering and Performance, 2015, 24, 2937-2943.	2.5	9
49	The phase equilibria in the Prâ€“Siâ€“Zr ternary system at 773K. Journal of Alloys and Compounds, 2011, 509, 246-251.	5.5	8
50	Phase Equilibria of the Cu-Ti-Er System at 773ÂK (500ÂÂ°C) and Stability of the CuTi3 Phase. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4015-4022.	2.2	8
51	In situ synthesized Ti5Si3/Tiâ€“Mo lightweight structural composites. International Journal of Refractory Metals and Hard Materials, 2013, 41, 432-436.	3.8	8
52	Phase equilibria of the Alâ€“Prâ€“Zr ternary system at 773K. Journal of Alloys and Compounds, 2010, 503, 57-60.	5.5	7
53	Influence of Sn addition on mechanical properties of gas tungsten arc welded AM60 Mg alloy sheets. Transactions of Nonferrous Metals Society of China, 2016, 26, 2051-2057.	4.2	7
54	Effect of Al on microstructure and mechanical properties of as-extruded Mgâ€“1Mn alloy sheet. Progress in Natural Science: Materials International, 2020, 30, 402-409.	4.4	7

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55	The Effect of Multiple Shot Peening on the Corrosion Behavior of Duplex Stainless Steel. Journal of Materials Engineering and Performance, 2018, 27, 1396-1403.	2.5	6
56	Microstructure and Mechanical Properties of Mgâ€“6Alâ€“1Snâ€“0.3Mn Alloy Sheet Fabricated through Extrusion Combined with Rolling. Crystals, 2018, 8, 356.	2.2	6
57	Effects of welding wire composition on the repair welds of sand-cast Mgâ€“Gdâ€“Y alloy: Microstructure and mechanical properties. Vacuum, 2022, 199, 110919.	3.5	5
58	The phase relations in the Ceâ€“Snâ€“Ti ternary system at 473K. Journal of Alloys and Compounds, 2010, 496, 155-158.	5.5	4
59	The Effect of Aluminum Dihydrogen Phosphate on the Enhanced Mechanical Properties of Aluminum Foams. Materials Transactions, 2018, 59, 922-926.	1.2	4
60	The 773K isothermal section of the Tiâ€“Coâ€“V ternary system. Journal of Alloys and Compounds, 2009, 481, 233-235.	5.5	3
61	Phase equilibria in the ternary Alâ€“Zrâ€“La system. Journal of Alloys and Compounds, 2010, 507, 62-66.	5.5	2
62	Excellent Double-Aging Strengthening Effect with the High Density Î³â€™ Phase of 945A Nickel-Based Alloy. Crystals, 2022, 12, 175.	2.2	2
63	Significant Improvement of Strength in Wrought 945A Ni-Based Superalloy by Aging Treatment. Crystals, 2021, 11, 627.	2.2	1