Jia She

List of Publications by Year
in descending order

63 papers	2,960 citations	218677 26 h-index	168389 53 g-index
63 all docs	63 docs citations	63 times ranked	1586 citing authors

#	Article	IF	Citations
1	A reverse design model for high-performance and low-cost magnesium alloys by machine learning. Computational Materials Science, 2022, 201, 110881.	3.0	14
2	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
3	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
4	Excellent Double-Aging Strengthening Effect with the High Density Î³â€™ Phase of 945A Nickel-Based Alloy. Crystals, 2022, 12, 175.	2.2	2
5	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
6	A review of the design, processes, and properties of Mg-based composites. Nanotechnology Reviews, 2022, 11, 712-730.	5.8	27
7	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
8	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
9	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
10	Significant Improvement of Strength in Wrought 945A Ni-Based Superalloy by Aging Treatment. Crystals, 2021, 11, 627.	2.2	1
11	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
12	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
13	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
14	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
15	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
16	Latest research advances on magnesium and magnesium alloys worldwide. Journal of Magnesium and Alloys, 2020, 8, 1-41.	11.9	852
17	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
18	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

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19	Novel on-line twist extrusion process for bulk magnesium alloys. Materials and Design, 2019, 182, 108011.	7.0	25
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	Regulating Precipitates by Simple Cold Deformations to Strengthen Mg Alloys: A Review. Materials, 2019, 12, 2507.	2.9	18
22	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
23	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
24	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
25	Effect of high content of manganese on microstructure, texture and mechanical properties of magnesium alloy. Materials Characterization, 2018, 136, 310-317.	4.4	46
26	The Effect of Aluminum Dihydrogen Phosphate on the Enhanced Mechanical Properties of Aluminum Foams. Materials Transactions, 2018, 59, 922-926.	1.2	4
27	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
28	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
29	Activations of stacking faults in the calcium-containing magnesium alloys under compression. Journal of Alloys and Compounds, 2017, 692, 898-902.	5.5	10
30	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
31	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
32	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
33	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
34	Microstructure and mechanical properties of Mgâ€“Alâ€“Sn extruded alloys. Journal of Alloys and Compounds, 2016, 657, 893-905.	5.5	77
35	Effect of high Mn content on development of ultra-fine grain extruded magnesium alloy. Materials and Design, 2016, 90, 7-12.	7.0	64
36	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

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37	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
38	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
39	Effect of texture on the electromagnetic shielding property of magnesium alloy. Materials Letters, 2015, 157, 73-76.	2.6	41
40	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
41	Enhancing mechanical properties of Mgâ€“Sn alloys by combining addition of Ca and Zn. Materials and Design, 2015, 83, 736-744.	7.0	118
42	Improved mechanical proprieties of â€œmagnesium based compositesâ€•with titaniumâ€“aluminum hybrids. Journal of Magnesium and Alloys, 2015, 3, 1-9.	11.9	72
43	Development of magnesium-graphene nanoplatelets composite. Journal of Composite Materials, 2015, 49, 285-293.	2.4	121
44	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
45	Thermal and electrical conductivity of binary magnesium alloys. Journal of Materials Science, 2014, 49, 3107-3124.	3.7	114
46	High conductivity and high strength Mgâ€“Znâ€“Cu alloy. Materials Science and Technology, 2014, 30, 759-764.	1.6	29
47	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
48	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
49	In situ synthesized Ti5Si3/Tiâ€“Mo lightweight structural composites. International Journal of Refractory Metals and Hard Materials, 2013, 41, 432-436.	3.8	8
50	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
51	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
52	The phase equilibria in the Prâ€“Siâ€“Zr ternary system at 773K. Journal of Alloys and Compounds, 2011, 509, 246-251.	5.5	8
53	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
54	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

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55	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
56	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
57	Phase equilibria in the Alâ€"Zrâ€"Ce system at 773K. Journal of Alloys and Compounds, 2010, 491, 200-202.	5.5	11
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	Experimental study of Alâ€"Zrâ€"Y system phase equilibria at 773K. Journal of Alloys and Compounds, 2010, 497, 118-120.	5.5	14
60	Phase equilibria of the Alâ€"Prâ€"Zr ternary system at 773K. Journal of Alloys and Compounds, 2010, 503, 57-60.	5.5	7
61	Phase equilibria in the ternary Alâ€"Zrâ€"La system. Journal of Alloys and Compounds, 2010, 507, 62-66.	5.5	2
62	The 773K isothermal section of the Tiâ€"Coâ€"V ternary system. Journal of Alloys and Compounds, 2009, 481, 233-235.	5.5	3
63	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