Yong Xue

List of Publications by Year in descending order

42 papers	381 citations	933447 10 h-index	888059 17 g-index
42 all docs	42 docs citations	42 times ranked	128 citing authors

#	Article	IF	Citations
1	A novel severe plastic deformation method and its effect on microstructure, texture and mechanical properties of Mg-Gd-Y-Zn-Zr alloy. Journal of Alloys and Compounds, 2020, 822, 153698.	5.5	56
2	Microstructure evolution, texture and mechanical properties of a Mgâ€“Gdâ€“Yâ€“Znâ€“Zr alloy fabricated by cyclic expansion extrusion with an asymmetrical extrusion cavity: The influence of passes and processing route. Journal of Magnesium and Alloys, 2021, 9, 964-982.	11.9	44
3	Preparation of ultra-high strength Mg-Gd-Y-Zn-Zr alloy by pre-ageing treatment prior to extrusion. Journal of Alloys and Compounds, 2022, 894, 162490.	5.5	43
4	An alternating ageing-annealing process for enhancing strength and ductility of a Mg-Gd-Y-Zn-Zr alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 828, 142103.	5.6	31
5	Effect of heat treatment on mechanical properties and microstructure evolution of Mg-9.5Gd-4Y-2.2Zn-0.5Zr alloy. Journal of Magnesium and Alloys, 2022, 10, 1124-1132.	11.9	24
6	Spatiotemporal dynamics of a predatorâ€“prey model. Nonlinear Dynamics, 2012, 69, 71-77.	5.2	19
7	Study on Flow Stress Model and Processing Map of Homogenized Mg-Gd-Y-Zn-Zr Alloy During Thermomechanical Processes. Journal of Materials Engineering and Performance, 2015, 24, 964-971.	2.5	14
8	An Investigation on Microstructure, Texture and Mechanical Properties of AZ80 Mg Alloy Processed by Annular Channel Angular Extrusion. Materials, 2019, 12, 1001.	2.9	14
9	The effect of heat treatment on Î±/ Î² phases evolution of TC4 titanium alloy fabricated by spark plasma sintering. Procedia Manufacturing, 2020, 50, 713-718.	1.9	14
10	Microstructural Evolution and Anisotropic Weakening Mechanism of ZK60 Magnesium Alloy Processed by Isothermal Repetitive Upsetting Extrusion. Acta Metallurgica Sinica (English Letters), 2022, 35, 839-852.	2.9	14
11	Microstructure characterization of hot isostatic pressed Tiâ€“6Alâ€“4V alloy under uniaxial compression and post heat treatment. Journal of Materials Research and Technology, 2021, 15, 7070-7084.	5.8	11
12	Microstructure and mechanical properties of Mg-Gd-Y-Zn-Zr alloy by cyclic expansion-extrusion with an asymmetrical extrusion cavity (CEE-AEC). Materials Research Express, 2019, 6, 1065c8.	1.6	10
13	Evolution of the Î± phase and microhardness for hot isostatic pressed Ti-6Al-4V alloy during multi-pass deformation. Materials Characterization, 2021, 178, 111263.	4.4	9
14	Effect of multi-pass deformation on hot flow behavior and microstructure evolution mechanism of Tiâ€“6Alâ€“4V alloy fabricated by hot isostatic pressing. Journal of Materials Research and Technology, 2022, 17, 2229-2248.	5.8	9
15	Numerical Prediction and Experimental Validation of the Microstructure of Bearing Steel Ball Formation in Warm Skew Rolling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 1254-1263.	2.2	7
16	Effect of multi-pass deformation on microstructure and flow behavior of Ti-6Al-4V alloy fabricated through hot isostatic pressing. Materials Research Express, 2021, 8, 016519.	1.6	7
17	High Ductility with a Homogeneous Microstructure of a Mgâ€“Alâ€“Zn Alloy Prepared by Cyclic Expansion Extrusion with an Asymmetrical Extrusion Cavity. Metals, 2020, 10, 1102.	2.3	6
18	Processing Map of Powder Metallurgy Al-W Alloys at Elevated Temperatures. Journal of Materials Engineering and Performance, 2017, 26, 3216-3225.	2.5	5

#	Article	IF	Citations
19	Microstructure evolution of TC4 powder by spark plasma sintering after hot deformation. High Temperature Materials and Processes, 2020, 39, 457-465.	1.4	5
20	Study on processing and structure property of Al-Cu-Mg-Zn alloy cup-shaped part produced by radial-backward extrusion. International Journal of Advanced Manufacturing Technology, 2018, 95, 687-696.	3.0	4
21	Effect of Cyclic Expansion-Extrusion Process on Microstructure, Deformation and Dynamic Recrystallization Mechanisms, and Texture Evolution of AZ80 Magnesium Alloy. Advances in Materials Science and Engineering, 2019, 2019, 1-10.	1.8	4
22	Influence of a novel SPD technique together with heat treatment on the microstructural characteristics and hardness of Mg-13Gd-4Y-2Zn-0.5Zr alloys. Materials Research Express, 2020, 7, 126518.	1.6	4
23	Effect of different cyclic expansionâ€“extrusion processes on microstructure and mechanical properties of AZ80 magnesium alloy. Advances in Mechanical Engineering, 2017, 9, 168781401769665.	1.6	3
24	Hot workability and microstructure evolution of Alâ€“0.2Scâ€“0.04Zr alloy. Journal of Materials Science, 2019, 54, 7908-7921.	3.7	3
25	Microstructure and Texture Evolution of AZ31 Alloy Prepared by Cyclic Expansion Extrusion with Asymmetrical Extrusion Cavity at Different Temperatures. Materials, 2020, 13, 3757.	2.9	3
26	Effect of multi-pass deformation on microstructure evolution of spark plasma sintered TC4 titanium alloy. High Temperature Materials and Processes, 2020, 39, 328-339.	1.4	3
27	Effect of annealing temperature and time on recrystallization behavior of Mg-Gd-Y-Zn-Zr alloy. Materials Research Express, 2021, 8, 126503.	1.6	2
28	HOT DEFORMATION BEHAVIOR AND PROCESSING MAP OF A Mg-Gd-Y-Zn-Zr ALLOY. Materiali in Tehnologije, 2021, 55, .	0.5	2
29	Hot Deformation Behaviour and Constitutive Equation of Mg-9Gd-4Y-2Zn-0.5Zr Alloy. Materials, 2022, 15, 1779.	2.9	2
30	Low-cycle fatigue behaviour of Mg-9Gd-4Y-2Zn-0.5Zr alloys with different structures. Journal of Magnesium and Alloys, 2023, 11, 3382-3393.	11.9	2
31	Effect of Annealing Before Aging on Microstructure and Mechanical Properties of Mg-Gd-Y-Zn-Zr Alloy. Journal of Materials Engineering and Performance, 2022, 31, 9829-9838.	2.5	2
32	Microstructure Evolution and Mechanical Properties of AQ80 Alloy During Forward Extrusion and Twist Deformation. Journal of Materials Engineering and Performance, 2020, 29, 6774-6783.	2.5	1
33	Effect of Different Deformation Methods on Microstructure Evolution of TC4 Titanium Alloy Prepared by Spark Plasma Sintering. Materials Science Forum, 2020, 993, 254-258.	0.3	1
34	Reinforcing effects of cyclic expansion extrusion with an asymmetrical extrusion cavity (CEE-AEC) on pure magnesium. Materials Research Express, 2021, 8, 056502.	1.6	1
35	Influence of heat treatment on the tensile properties and fatigue properties of Mg-8.8Gd-3.5Y-1.5Zn-0.5Zr alloy. Materials Research Express, 2021, 8, 056518.	1.6	1
36	Multi-pass Hot Deformation Behavior and Microstructure Evolution of Spark Plasma-Sintered Ti-6Al-4V Alloy. Journal of Materials Engineering and Performance, 0, , 1.	2.5	1

#	Article	IF	Citations
37	A Study on the Phenomenological Constitutive Model of Mg-12Gd-5Y-3Zn-0.6Zr Magnesium Alloy Forming at Elevated Temperature. Applied Mechanics and Materials, 0, 624, 71-76.	0.2	0
38	An optimum design on rollers containing the groove with changeable inner diameter based on response surface methodology. Advances in Mechanical Engineering, 2016, 8, 168781401665179.	1.6	0
39	The improvement of grain refinement, texture modification and mechanical properties of pure Mg prepared by cyclic expansion extrusion with an asymmetric extrusion cavity. Materials Research Express, 2021, 8, 046530.	1.6	0
40	Microstructure and mechanical properties of pure magnesium prepared by CEE-AEC at different temperatures. Materials Research Express, 2021, 8, 066511.	1.6	0
41	Effect of Deformation Parameters on Recrystallization Behavior and Long-Period Stacking-Ordered Phase of Mg-9Gd-4Y-2Zn-0.5Zr Alloy. Materials, 2022, 15, 1822.	2.9	0
42	The Microstructure Evolution of Mg-RE Alloy Produced by Reciprocating Upsetting Extrusion during Hot Compression. Metals, 2022, 12, 888.	2.3	0