

Di Tie

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

662
citations

933447

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times ranked

785
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Grain Refinement of Aluminum Alloys: Progresses, Challenges and Prospects. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 409-432.	2.9	165
2	Development and evaluation of a magnesium-zinc-strontium alloy for biomedical applications: Alloy processing, microstructure, mechanical properties, and biodegradation. <i>Materials Science and Engineering C</i> , 2013, 33, 3661-3669.	7.3	91
3	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mg-1Sr alloy. <i>Acta Biomaterialia</i> , 2016, 29, 455-467.	8.3	85
4	XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, and Simulated Body Fluid. <i>Advanced Engineering Materials</i> , 2010, 12, B699.	3.5	83
5	Microstructures, mechanical properties, and degradation behaviors of heat-treated Mg-Sr alloys as potential biodegradable implant materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 47-57.	3.1	38
6	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. <i>Acta Biomaterialia</i> , 2020, 116, 415-425.	8.3	38
7	Effects of alloying elements X (Cr, Mn, Mo, Ni, Si) on the interface stability of TiC (001)/ ⁵¹ Fe (001) in TiC/316L stainless steel composite formed by selective laser melting: first principles and experiments. <i>Advanced Composites and Hybrid Materials</i> , 2021, 4, 195-204.	21.1	30
8	Fabrication of magnesium-coated graphene and its effect on the microstructure of reinforced AZ91 magnesium-matrix composites. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 504-512.	21.1	23
9	Regulating discharge performance of Mg anode in primary Mg-air battery by complexing agents. <i>Electrochimica Acta</i> , 2021, 370, 137805.	5.2	18
10	In vivo degradability and biocompatibility of a rheo-formed Mg-Zn-Sr alloy for ureteral implantation. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 1631-1639.	11.9	11
11	The Mechanical Properties and Corrosion Resistance of Magnesium Alloys with Different Alloying Elements for Bone Repair. <i>Crystals</i> , 2018, 8, 271.	2.2	10
12	Rheological Solidification Behavior and Mechanical Properties of AZ91-Sn Alloys. <i>Crystals</i> , 2019, 9, 641.	2.2	10
13	Understanding the precipitation mechanism of copper-bearing phases in Al-Mg-Si system during thermo-mechanical treatment. <i>Journal of Materials Science and Technology</i> , 2022, 96, 226-232.	10.7	10
14	In vivo urinary compatibility of Mg-Sr-Ag alloy in swine model. <i>Bioactive Materials</i> , 2022, 7, 254-262.	15.6	8
15	The Evolution of Microstructure, Mechanical Properties and Fracture Behavior with Increasing Lanthanum Content in AZ91 Alloy. <i>Metals</i> , 2020, 10, 1256.	2.3	7
16	Mechanical and Conductive Performance of Aged 6xxx Aluminum Alloy during Rotary Swaging. <i>Crystals</i> , 2022, 12, 530.	2.2	7
17	Precipitation behavior during re-aging of Al-Mg-Si-Cu alloy. <i>Materials and Design</i> , 2022, 220, 110883.	7.0	7
18	Microstructural Evolution of Al-1Fe (Weight Percent) Alloy During Accumulative Continuous Extrusion Forming. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 490-498.	2.1	6

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19	Microstructure Evolution and Properties Tailoring of Rheo-Extruded Al-Sc-Zr-Fe Conductor via Thermo-Mechanical Treatment. <i>Materials</i> , 2020, 13, 845.	2.9	5
20	Wear resistant aluminum alloy - B4C composites fabricated by rheo-casting and rolling process. <i>Materials Research Express</i> , 2020, 7, 056525.	1.6	3
21	Tailored Mechanical and Conductive Properties of Continuous Rheo-Extruded Al-Sc-Zr Alloy Conductors by Thermomechanical Treatment. <i>Materials Transactions</i> , 2020, 61, 412-415.	1.2	3
22	Dynamic compression behaviour and microstructure of ZK60 alloy under different strain rates. <i>Materials Science and Technology</i> , 2021, 37, 1320-1332.	1.6	2
23	Effect of aging-treatment on dynamic compression behaviour and microstructure of ZK60 alloy. <i>Materials Science and Technology</i> , 2021, 37, 1117-1128.	1.6	1
24	Dissolution behavior of nano-sized precipitates in aged Al-Si-Mg-Cu alloy during cold deformation. <i>Materials Letters</i> , 2022, 320, 132399.	2.6	1
25	Shear Model of Metal Melt Flowing on Vibration Wall and Effect of Shear Stress on Solidification Microstructure. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 650-658.	2.9	0