Di Tie

List of Publications by Year
in descending order

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25	662	933447 10	610901 24
papers	citations	h-index	g-index

25	25	25	785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In vivo degradability and biocompatibility of a rheo-formed Mgâ€“Znâ€“Sr alloy for ureteral implantation. Journal of Magnesium and Alloys, 2022, 10, 1631-1639.	11.9	11
2	Understanding the precipitation mechanism of copper-bearing phases in Al-Mg-Si system during thermo-mechanical treatment. Journal of Materials Science and Technology, 2022, 96, 226-232.	10.7	10
3	In vivo urinary compatibility of Mg-Sr-Ag alloy in swine model. Bioactive Materials, 2022, 7, 254-262.	15.6	8
4	Fabrication of magnesium-coated graphene and its effect on the microstructure of reinforced AZ91 magnesium-matrix composites. Advanced Composites and Hybrid Materials, 2022, 5, 504-512.	21.1	23
5	Mechanical and Conductive Performance of Aged 6xxx Aluminum Alloy during Rotary Swaging. Crystals, 2022, 12, 530.	2.2	7
6	Dissolution behavior of nano-sized precipitates in aged Al-Si-Mg-Cu alloy during cold deformation. Materials Letters, 2022, 320, 132399.	2.6	1
7	Precipitation behavior during re-aging of Al-Mg-Si-Cu alloy. Materials and Design, 2022, 220, 110883.	7.0	7
8	Regulating discharge performance of Mg anode in primary Mg-air battery by complexing agents. Electrochimica Acta, 2021, 370, 137805.	5.2	18
9	Effects of alloying elements X (Cr, Mn, Mo, Ni, Si) on the interface stability of TiC (001)/Î³-Fe (001) in TiC/316L stainless steel composite formed by selective laser melting: first principles and experiments. Advanced Composites and Hybrid Materials, 2021, 4, 195-204.	21.1	30
10	Effect of aging-treatment on dynamic compression behaviour and microstructure of ZK60 alloy. Materials Science and Technology, 2021, 37, 1117-1128.	1.6	1
11	Dynamic compression behaviour and microstructure of ZK60 alloy under different strain rates. Materials Science and Technology, 2021, 37, 1320-1332.	1.6	2
12	In vivo assessment of biodegradable magnesium alloy ureteral stents in a pig model. Acta Biomaterialia, 2020, 116, 415-425.	8.3	38
13	The Evolution of Microstructure, Mechanical Properties and Fracture Behavior with Increasing Lanthanum Content in AZ91 Alloy. Metals, 2020, 10, 1256.	2.3	7
14	Wear resistant aluminum alloy - B4C composites fabricated by rheo-casting and rolling process. Materials Research Express, 2020, 7, 056525.	1.6	3
15	Microstructure Evolution and Properties Tailoring of Rheo-Extruded Al-Sc-Zr-Fe Conductor via Thermo-Mechanical Treatment. Materials, 2020, 13, 845.	2.9	5
16	Tailored Mechanical and Conductive Properties of Continuous Rheo-Extruded Alâ€“Scâ€“Zr Alloy Conductors by Thermomechanical Treatment. Materials Transactions, 2020, 61, 412-415.	1.2	3
17	Rheological Solidification Behavior and Mechanical Properties of AZ91-Sn Alloys. Crystals, 2019, 9, 641.	2.2	10
18	Microstructural Evolution of Al-1Fe (Weight Percent) Alloy During Accumulative Continuous Extrusion Forming. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 490-498.	2.1	6

#	Article	IF	Citations
19	Shear Model of Metal Melt Flowing on Vibration Wall and Effect of Shear Stress on Solidification Microstructure. Acta Metallurgica Sinica (English Letters), 2018, 31, 650-658.	2.9	0
20	Microstructures, mechanical properties, and degradation behaviors of heat-treated Mg-Sr alloys as potential biodegradable implant materials. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 77, 47-57.	3.1	38
21	The Mechanical Properties and Corrosion Resistance of Magnesium Alloys with Different Alloying Elements for Bone Repair. Crystals, 2018, 8, 271.	2.2	10
22	A Review on Grain Refinement of Aluminum Alloys: Progresses, Challenges and Prospects. Acta Metallurgica Sinica (English Letters), 2017, 30, 409-432.	2.9	165
23	An in vivo study on the metabolism and osteogenic activity of bioabsorbable Mgâ€“1Sr alloy. Acta Biomaterialia, 2016, 29, 455-467.	8.3	85
24	Development and evaluation of a magnesiumâ€“zincâ€“strontium alloy for biomedical applications â€” Alloy processing, microstructure, mechanical properties, and biodegradation. Materials Science and Engineering C, 2013, 33, 3661-3669.	7.3	91
25	XPS Studies of Magnesium Surfaces after Exposure to Dulbecco's Modified Eagle Medium, Hank's Buffered Salt Solution, and Simulated Body Fluid. Advanced Engineering Materials, 2010, 12, B699.	3.5	83