Deng-Feng Yin

List of Publications by Year
in descending order

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19 papers	376 citations	840776 11 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	296 citing authors

#	Article	IF	Citations
1	Improvement of biodegradable and antibacterial properties by solution treatment and micro-arc oxidation (MAO) of a magnesium alloy with a trace of copper. Corrosion Science, 2019, 156, 125-138.	6.6	64
2	Corrosion behavior of a self-sealing coating containing CeO2 particles on pure Mg produced by micro-arc oxidation. Surface and Coatings Technology, 2020, 386, 125456.	4.8	53
3	Correlation of grain boundary extra free volume with vacancy and solute segregation at grain boundaries: a case study for Al. Philosophical Magazine, 2018, 98, 464-483.	1.6	38
4	Microstructural evolution upon heat treatments and its effect on corrosion in Al-Zn-Mg alloys containing Sc and Zr. Journal of Materials Research and Technology, 2020, 9, 5077-5089.	5.8	29
5	Corrosion and antibacterial performance of novel selective-laser-melted (SLMed) Ti-xCu biomedical alloys. Journal of Alloys and Compounds, 2021, 864, 158415.	5.5	29
6	Influence of graphene oxide (GO) on microstructure and biodegradation of ZK30-xGO composites prepared by selective laser melting. Journal of Magnesium and Alloys, 2020, 8, 952-962.	11.9	28
7	Biodegradation Behavior of Coated As-Extruded Mgâ€“Sr Alloy in Simulated Body Fluid. Acta Metallurgica Sinica (English Letters), 2019, 32, 1195-1206.	2.9	26
8	Characterization of Hot Deformation Behavior of a Novel Alâ€“Cuâ€“Li Alloy Using Processing Maps. Acta Metallurgica Sinica (English Letters), 2015, 28, 817-825.	2.9	15
9	In Vitro Corrosion Resistance and Antibacterial Performance of Novel Feâ€“‹i›x‹/i›Cu Biomedical Alloys Prepared by Selective Laser Melting. Advanced Engineering Materials, 2021, 23, 2001000.	3.5	15
10	Biodegradation behaviour of hydroxyapatite-containing self-sealing micro-arc-oxidation coating on pure Mg. Surface Engineering, 2021, 37, 942-952.	2.2	15
11	Comparison of the biodegradation of ZK30 subjected to solid solution treating and selective laser melting. Journal of Materials Research and Technology, 2021, 10, 722-729.	5.8	15
12	Study on a Novel Biodegradable and Antibacterial Fe-Based Alloy Prepared by Microwave Sintering. Materials, 2021, 14, 3784.	2.9	11
13	Enhanced initial biodegradation resistance of the biomedical Mg-Cu alloy by surface nanomodification. Journal of Magnesium and Alloys, 2023, 11, 2776-2788.	11.9	11
14	Effects of solution treatment on mechanical properties and microstructures of Al-Li-Cu-Mg-Ag alloy. Journal of Central South University, 2013, 20, 2083-2089.	3.0	6
15	Comparison on Tensile Characteristics of Plain Câ€“Mn Steel with Ultrafine Grained Ferrite/Cementite Microstructure and Coarse Grained Ferrite/Pearlite Microstructure. Materials, 2021, 14, 2309.	2.9	6
16	Effect of Alloying Mn by Selective Laser Melting on the Microstructure and Biodegradation Properties of Pure Mg. Metals, 2020, 10, 1527.	2.3	5
17	Influence of Tempering Temperature on the Microstructure and Mechanical Properties of a Crâ€“Niâ€“Moâ€Alloyed Steel for Rock Drill Applications. Steel Research International, 2019, 90, 1900297.	1.8	4
18	Effect of bottom micro-crystalline diamond (MCD) layer and top nano-crystalline diamond (NCD) layer onto the tribological behavior of (MCD/NCD) bilayer film. Materials Research Express, 2020, 7, 026412.	1.6	3

#	Article	IF	Citations
19	Biodegradation, Antibacterial Performance, and Cytocompatibility of a Novel ZK30-Cu-Mn Biomedical Alloy Produced by Selective Laser Melting. International Journal of Bioprinting, 2021, 7, 300.	3.4	3