

# Deng-Feng Yin

## List of Publications by Year in descending order

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19  
papers

376  
citations

840119

11  
h-index

794141

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. <i>Corrosion Science</i> , 2019, 156, 125-138.	3.0	64
2	Corrosion behavior of a self-sealing coating containing CeO <sub>2</sub> particles on pure Mg produced by micro-arc oxidation. <i>Surface and Coatings Technology</i> , 2020, 386, 125456.	2.2	53
3	Correlation of grain boundary extra free volume with vacancy and solute segregation at grain boundaries: a case study for Al. <i>Philosophical Magazine</i> , 2018, 98, 464-483.	0.7	38
4	Microstructural evolution upon heat treatments and its effect on corrosion in Al-Zn-Mg alloys containing Sc and Zr. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5077-5089.	2.6	29
5	Corrosion and antibacterial performance of novel selective-laser-melted (SLMed) Ti-xCu biomedical alloys. <i>Journal of Alloys and Compounds</i> , 2021, 864, 158415.	2.8	29
6	Influence of graphene oxide (GO) on microstructure and biodegradation of ZK30-xGO composites prepared by selective laser melting. <i>Journal of Magnesium and Alloys</i> , 2020, 8, 952-962.	5.5	28
7	Biodegradation Behavior of Coated As-Extruded Mg-Sr Alloy in Simulated Body Fluid. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1195-1206.	1.5	26
8	Characterization of Hot Deformation Behavior of a Novel Al-Cu-Li Alloy Using Processing Maps. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 817-825.	1.5	15
9	In Vitro Corrosion Resistance and Antibacterial Performance of Novel Fe-Cu Biomedical Alloys Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , 2021, 23, 2001000.	1.6	15
10	Biodegradation behaviour of hydroxyapatite-containing self-sealing micro-arc-oxidation coating on pure Mg. <i>Surface Engineering</i> , 2021, 37, 942-952.	1.1	15
11	Comparison of the biodegradation of ZK30 subjected to solid solution treating and selective laser melting. <i>Journal of Materials Research and Technology</i> , 2021, 10, 722-729.	2.6	15
12	Study on a Novel Biodegradable and Antibacterial Fe-Based Alloy Prepared by Microwave Sintering. <i>Materials</i> , 2021, 14, 3784.	1.3	11
13	Enhanced initial biodegradation resistance of the biomedical Mg-Cu alloy by surface nanomodification. <i>Journal of Magnesium and Alloys</i> , 2023, 11, 2776-2788.	5.5	11
14	Effects of solution treatment on mechanical properties and microstructures of Al-Li-Cu-Mg-Ag alloy. <i>Journal of Central South University</i> , 2013, 20, 2083-2089.	1.2	6
15	Comparison on Tensile Characteristics of Plain Mn Steel with Ultrafine Grained Ferrite/Cementite Microstructure and Coarse Grained Ferrite/Pearlite Microstructure. <i>Materials</i> , 2021, 14, 2309.	1.3	6
16	Effect of Alloying Mn by Selective Laser Melting on the Microstructure and Biodegradation Properties of Pure Mg. <i>Metals</i> , 2020, 10, 1527.	1.0	5
17	Influence of Tempering Temperature on the Microstructure and Mechanical Properties of a Cr-Ni-Mo Alloyed Steel for Rock Drill Applications. <i>Steel Research International</i> , 2019, 90, 1900297.	1.0	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. <i>Materials Research Express</i> , 2020, 7, 026412.	0.8	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.	1.7	3