

# Deng-Feng Yin

## List of Publications by Citations

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19  
papers

180  
citations

8  
h-index

13  
g-index

19  
ext. papers

282  
ext. citations

4.1  
avg, IF

3.39  
L-index

| #  | Paper                                                                                                                                                                                                                     | IF  | Citations |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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> , <b>2019</b> , 156, 125-138          | 6.8 | 39        |
| 18 | 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> , <b>2020</b> , 386, 125456                         | 4.4 | 26        |
| 17 | Correlation of grain boundary extra free volume with vacancy and solute segregation at grain boundaries: a case study for Al. <i>Philosophical Magazine</i> , <b>2018</b> , 98, 464-483                                   | 1.6 | 21        |
| 16 | Biodegradation Behavior of Coated As-Extruded Mg <sub>92</sub> Zr Alloy in Simulated Body Fluid. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1195-1206                                          | 2.5 | 18        |
| 15 | Characterization of Hot Deformation Behavior of a Novel Al <sub>70</sub> Cu <sub>30</sub> Alloy Using Processing Maps. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2015</b> , 28, 817-825                      | 2.5 | 14        |
| 14 | 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> , <b>2020</b> , 9, 5077-5089                      | 5.5 | 14        |
| 13 | 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> , <b>2020</b> , 8, 952-962                       | 8.8 | 12        |
| 12 | Corrosion and antibacterial performance of novel selective-laser-melted (SLMed) Ti-xCu biomedical alloys. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 864, 158415                                              | 5.7 | 11        |
| 11 | Effects of solution treatment on mechanical properties and microstructures of Al-Li-Cu-Mg-Ag alloy. <i>Journal of Central South University</i> , <b>2013</b> , 20, 2083-2089                                              | 2.1 | 4         |
| 10 | Biodegradation behaviour of hydroxyapatite-containing self-sealing micro-arc-oxidation coating on pure Mg. <i>Surface Engineering</i> , <b>2021</b> , 37, 942-952                                                         | 2.6 | 4         |
| 9  | Influence of Tempering Temperature on the Microstructure and Mechanical Properties of a CrNiMo-Alloyed Steel for Rock Drill Applications. <i>Steel Research International</i> , <b>2019</b> , 90, 1900297                 | 1.6 | 3         |
| 8  | Biodegradation, Antibacterial Performance, and Cytocompatibility of a Novel ZK30-Cu-Mn Biomedical Alloy Produced by Selective Laser Melting. <i>International Journal of Bioprinting</i> , <b>2021</b> , 7, 300           | 6.2 | 3         |
| 7  | In Vitro Corrosion Resistance and Antibacterial Performance of Novel Fe <sub>2</sub> Cu Biomedical Alloys Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001000          | 3.5 | 3         |
| 6  | Comparison of the biodegradation of ZK30 subjected to solid solution treating and selective laser melting. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 10, 722-729                                | 5.5 | 3         |
| 5  | 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> , <b>2020</b> , 7, 026417 | 1.7 | 1         |
| 4  | Enhanced initial biodegradation resistance of the biomedical Mg-Cu alloy by surface nanomodification. <i>Journal of Magnesium and Alloys</i> , <b>2022</b> ,                                                              | 8.8 | 1         |
| 3  | Effect of Alloying Mn by Selective Laser Melting on the Microstructure and Biodegradation Properties of Pure Mg. <i>Metals</i> , <b>2020</b> , 10, 1527                                                                   | 2.3 | 1         |

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|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|
| 2 | Comparison on Tensile Characteristics of Plain C-Mn Steel with Ultrafine Grained Ferrite/Cementite Microstructure and Coarse Grained Ferrite/Pearlite Microstructure. <i>Materials</i> , <b>2021</b> , 14, | 3.5 | 1 |
| 1 | Study on a Novel Biodegradable and Antibacterial Fe-Based Alloy Prepared by Microwave Sintering. <i>Materials</i> , <b>2021</b> , 14,                                                                      | 3.5 | 1 |