

# Ming-Chun Zhao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49  
papers

1,563  
citations

18  
h-index

39  
g-index

51  
ext. papers

1,923  
ext. citations

4.7  
avg. IF

4.89  
L-index

#	Paper	IF	Citations
49	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
48	Comparative Study on Biodegradation of Pure Iron Prepared by Microwave Sintering and Laser Melting.. <i>Materials</i> , <b>2022</b> , 15,	3.5	1
47	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
46	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
45	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
44	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
43	In Situ Observation of the Degradation Behavior and the Systematic Investigation of Corrosion Mechanism in AZ31 Alloy. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2100396	3.5	0
42	Study on a Novel Biodegradable and Antibacterial Fe-Based Alloy Prepared by Microwave Sintering. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
41	Microstructure evolution and texture tailoring of reduced graphene oxide reinforced Zn scaffold. <i>Bioactive Materials</i> , <b>2021</b> , 6, 1230-1241	16.7	90
40	In Vitro Corrosion Resistance and Antibacterial Performance of Novel Fe-Cu Biomedical Alloys Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2001000	3.5	3
39	Effects of the Primary NbC Elimination on the SSCC Resistance of a HSLA Steel for Oil Country Tubular Goods. <i>Materials</i> , <b>2021</b> , 14,	3.5	2
38	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
37	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
36	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
35	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>2020</b> , 7, 300	6.2	5
34	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
33	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

32	Study on Fe-xGO Composites Prepared by Selective Laser Melting: Microstructure, Hardness, Biodegradation and Cytocompatibility. <i>Jom</i> , <b>2020</b> , 72, 1163-1174	2.1	12
31	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
30	Evolution of microstructure and texture for an Al-0.4 Er alloy during accumulative roll bonding. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 811, 152005	5.7	5
29	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
28	Graphene Oxide Reinforced Iron Matrix Composite With Enhanced Biodegradation Rate Prepared by Selective Laser Melting. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1900314	3.5	13
27	Biodegradation Behavior of Coated As-Extruded MgBr Alloy in Simulated Body Fluid. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 1195-1206	2.5	18
26	Ultra-high cycle fatigue behavior of a novel 1.9 GPa grade super-high-strength maraging stainless steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2019</b> , 755, 50-56	5.3	9
25	Formation and characteristic corrosion behavior of alternately lamellar arranged $\alpha$ and $\beta$ in as-cast AZ91 Mg alloy. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 770, 549-558	5.7	37
24	Hot Deformation Behavior of a New Nuclear Use Reduced Activation Ferritic/Martensitic Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , <b>2019</b> , 32, 825-834	2.5	13
23	Improved biodegradation resistance by grain refinement of novel antibacterial ZK30-Cu alloys produced via selective laser melting. <i>Materials Letters</i> , <b>2019</b> , 237, 253-257	3.3	37
22	Designing a high Si reduced activation ferritic/martensitic steel for nuclear power generation by using Calphad method. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 266-274	9.1	17
21	Effect of grain refinement and crystallographic texture produced by friction stir processing on the biodegradation behavior of a Mg-Nd-Zn alloy. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 777-783	9.1	49
20	Microstructure, biodegradation, antibacterial and mechanical properties of ZK60-Cu alloys prepared by selective laser melting technique. <i>Journal of Materials Science and Technology</i> , <b>2018</b> , 34, 1944-1952	9.1	43
19	Influence of hybrid extrusion and solution treatment on the microstructure and degradation behavior of Mg-0.1Cu alloy. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2018</b> , 229, 105-117	3.1	22
18	Corrosion and biological performance of biodegradable magnesium alloys mediated by low copper addition and processing. <i>Materials Science and Engineering C</i> , <b>2018</b> , 93, 565-581	8.3	35
17	Lanthanum-Containing Magnesium Alloy with Antitumor Function Based on Increased Reactive Oxygen Species. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2109	2.6	8
16	Biodegradation Resistance and Bioactivity of Hydroxyapatite Enhanced Mg-Zn Composites via Selective Laser Melting. <i>Materials</i> , <b>2017</b> , 10,	3.5	21
15	Rare Earth Element Yttrium Modified Mg-Al-Zn Alloy: Microstructure, Degradation Properties and Hardness. <i>Materials</i> , <b>2017</b> , 10,	3.5	25

14	Mechanical reinforcement of bioceramics scaffolds via fracture energy dissipation induced by sliding action of MoS nanoplatelets. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , <b>2017</b> , 75, 423-433	4.1	11
13	Microstructure Evolution and Biodegradation Behavior of Laser Rapid Solidified MgAlZn Alloy. <i>Metals</i> , <b>2017</b> , 7, 105	2.3	21
12	A Novel Heat Treatment for Excavator Dipper Teeth Manufactured from Low-Carbon Low-Alloy Steel. <i>Steel Research International</i> , <b>2013</b> , 84, 89-93	1.6	2
11	Role of second phase cementite and martensite particles on strength and strain hardening in a plain C-Mn steel. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2012</b> , 549, 222-227	5.3	12
10	An exploratory study of the corrosion of Mg alloys during interrupted salt spray testing. <i>Corrosion Science</i> , <b>2009</b> , 51, 1277-1292	6.8	196
9	The effect of crystallographic orientation on the active corrosion of pure magnesium. <i>Scripta Materialia</i> , <b>2008</b> , 58, 421-424	5.6	199
8	Strengthening and improvement of ductility without loss of corrosion performance in a magnesium alloy by homogenizing annealing. <i>Scripta Materialia</i> , <b>2008</b> , 58, 560-563	5.6	23
7	Influence of the $\beta$ -phase morphology on the corrosion of the Mg alloy AZ91. <i>Corrosion Science</i> , <b>2008</b> , 50, 1939-1953	6.8	437
6	Formation of Bimodal-Sized Structure and Its Tensile Properties in a Warm-Rolled and Annealed Ultrafine-Grained Ferrite/Cementite Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2008</b> , 39, 1691-1701	2.3	33
5	Microstructural evolution of submicron sized ferrite in bimodal structural ultrafine grained ferrite/cementite steels by annealing below austenized temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2006</b> , 37, 1657-1664	2.3	25
4	Precipitation of Carbonitrides and Their Strengthening upon Non-quench Aging for Micro-alloyed Acicular Ferrite Pipeline Steels. <i>Materials Transactions</i> , <b>2005</b> , 46, 784-789	1.3	7
3	Effects of Nano-sized Microalloyed Carbonitrides and High-density Pinned Dislocations on Sulfide Stress Cracking Resistance of Pipeline Steels. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 2248-2251	2.5	3
2	Difference in the Role of Non-quench Aging on Mechanical Properties between Acicular Ferrite and Ferrite-Pearlite Pipeline Steels. <i>ISIJ International</i> , <b>2005</b> , 45, 116-120	1.7	9
1	Elimination of Primary NbC Carbides in HSLA Steels for Oil Industry Tubular Goods. <i>Jom</i> , <b>2005</b> , 37, 100-103	2.1	1