

Cunlong Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effect of nanoparticle fraction on Portevin-Le Chatelier effect of ZrB ₂ nanoparticle-reinforced AA6xxx composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 830, 142305.	2.6	2
2	Improvements of elevated temperature tensile strengths of Mg-Gd-Y-Zr alloy through squeeze cast. <i>Materials Characterization</i> , 2022, 184, 111658.	1.9	8
3	A novel process for grain refinement of Mg-RE alloys by low frequency electro-magnetic stirring assisted near-liquidus squeeze casting. <i>Journal of Materials Processing Technology</i> , 2022, 303, 117537.	3.1	14
4	Recent developments and applications on high-performance cast magnesium rare-earth alloys. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 1-20.	5.5	258
5	Formation of non-dendritic microstructures in preparation of semi-solid Mg-RE alloys slurries: Roles of RE content and cooling rate. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116545.	3.1	7
6	High cycle fatigue behavior of in-situ ZrB ₂ /AA6111 composites. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 788, 139590.	2.6	15
7	Microstructural characteristics and mechanical properties of extruded Al-4Cu-1Li-0.4Mg-0.1Zr-xZn alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 743, 223-232.	2.6	13
8	Effect of cooling rates on the dendritic morphology transition of Mg-Gd alloy by in situ X-ray radiography. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1142-1148.	5.6	27
9	Influences of heat treatment on microstructural evolution and tensile behavior of squeeze-cast Mg-Gd-Y-Zr alloy. <i>Journal of Materials Science</i> , 2017, 52, 1831-1846.	1.7	23
10	Influence of Pressure and Temperature on Microstructure and Mechanical Behavior of Squeeze Cast Mg-10Gd-3Y-0.5Zr Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4104-4115.	1.1	15
11	Characterization and investigation of the deformation behavior of porous magnesium scaffolds with entangled architected pore channels. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 64, 139-150.	1.5	20
12	Mechanical degradation of porous titanium with entangled structure filled with biodegradable magnesium in Hanks' solution. <i>Materials Science and Engineering C</i> , 2015, 57, 349-354.	3.8	21
13	Preparation of an Mg-Gd-Zn alloy semisolid slurry by low frequency electro-magnetic stirring. <i>Materials and Design</i> , 2015, 84, 53-63.	3.3	39
14	Fabrication of graded porous titanium-magnesium composite for load-bearing biomedical applications. <i>Materials & Design</i> , 2015, 67, 354-359.	5.1	57
15	Porous titanium with entangled structure filled with biodegradable magnesium for potential biomedical applications. <i>Materials Science and Engineering C</i> , 2015, 47, 142-149.	3.8	19
16	Effect of Al additions on grain refinement and mechanical properties of Mg-Sm alloys. <i>Journal of Alloys and Compounds</i> , 2015, 620, 172-179.	2.8	66
17	Effects of processing parameters on microstructure and mechanical properties of squeeze-cast Mg-12Zn-4Al-0.5Ca alloy. <i>Materials & Design</i> , 2014, 63, 729-737.	5.1	22