

Mehdi Malekan

List of Publications by Year in descending order

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papers

549
citations

687363

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37
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37
times ranked

349
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigating the effect of GTAW parameters on the porosity formation of C70600 copper-nickel alloy. Canadian Metallurgical Quarterly, 2023, 62, 180-189.	1.2	2
2	Thermal behavior of newly developed Zr ₃₃ Hf ₈ Ti ₆ Cu ₃₂ Ni ₁₀ Co ₅ Al ₆ high-entropy bulk metallic glass. Journal of Alloys and Compounds, 2022, 892, 162220.	5.5	25
3	Thermodynamic and kinetic interpretation of the glass-forming ability of Y-containing Cu-Zr-Al bulk metallic glasses. Journal of Non-Crystalline Solids, 2022, 576, 121266.	3.1	8
4	Soft Magnetic High Entropy FeCoNiCuMn Alloy with Excellent Ductility and High Electrical Resistance. Metals and Materials International, 2022, 28, 556-564.	3.4	13
5	Superplastic formability of the developed Zr ₄₀ Hf ₁₀ Ti ₅ Al ₁₀ Cu ₂₅ Ni ₁₀ high entropy bulk metallic glass with enhanced thermal stability. Journal of Non-Crystalline Solids, 2022, 576, 121265.	3.1	10
6	Superplasticity of bulk metallic glasses (BMGs): A review. Journal of Non-Crystalline Solids, 2022, 583, 121503.	3.1	12
7	Thermodynamically-guided machine learning modelling for predicting the glass-forming ability of bulk metallic glasses. Scientific Reports, 2022, 12, .	3.3	3
8	Delta processing effects on the creep behavior of a typical Nb-bearing nickel-based superalloy. Vacuum, 2021, 184, 109913.	3.5	7
9	Computational Modeling of Compressive Behavior of Wire-Reinforced Bulk Metallic Glass Matrix Composites. Transactions of the Indian Institute of Metals, 2021, 74, 649-658.	1.5	0
10	Complex reaction behaviour of ceramic mould with the molten AZ91 alloy during investment casting. Materials Science and Technology, 2021, 37, 377-383.	1.6	1
11	Effective role of minor silicon addition on crystallization kinetics of Cu ₅₀ Zr ₄₃ Al ₇ bulk metallic glass. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	8
12	Effect of microalloying by Ca on the microstructure and mechanical properties of as-cast and wrought Mg ₂ Si composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 820, 141574.	5.6	26
13	Under glass transition temperature diffusion bonding of bulk metallic glass and aluminum. Materials Chemistry and Physics, 2021, 269, 124758.	4.0	4
14	Substructure induced dendrite-fragmentation during thermomechanical processing of as-cast Mg-Sn-Li-Zn alloy. Materials Letters, 2021, 305, 130690.	2.6	6
15	Microstructure, tensile and bending behaviour of the as-cast AM50 alloy modified with different antimony and copper additions. Materials Science and Technology, 2021, 37, 86-102.	1.6	1
16	Determination of dendrite coherency point characteristics in Al-Si-Mg alloy. International Journal of Cast Metals Research, 2021, 34, 14-20.	1.0	3
17	Enhanced mechanical properties of Mg-Ni-RE alloys via hot extrusion. Materials Science and Technology, 2021, 37, 1285-1290.	1.6	4
18	Microstructure, mechanical properties and wear behaviour of the AZ91-Mg ₂ Si-SiC hybrid composites. Materials Science and Technology, 2021, 37, 1333-1341.	1.6	6

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19	Throughput study of diffusion along the twin boundaries in Mg-5Sn-0.3Li as-cast alloy and its effect on the homogenization during hot deformation. <i>Materials Letters</i> , 2020, 281, 128446.	2.6	2
20	Effects of Al ₃ Ni and Al ₇ Cr Intermetallics and T6 Heat Treatment on the Microstructure and Tensile Properties of Al-Zn-Mg-Cu Alloy. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3432-3442.	2.5	4
21	Precipitation kinetics of γ' phase and its mechanism in a Nb-bearing nickel-based superalloy during aging. <i>Vacuum</i> , 2020, 178, 109456.	3.5	23
22	Crystallization kinetics of mechanically alloyed amorphous Fe-Ti alloys during annealing. <i>Advanced Powder Technology</i> , 2020, 31, 3215-3221.	4.1	10
23	Enhanced mechanical properties of as-cast AZ91 magnesium alloy by combined RE-Sr addition and hot extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 792, 139817.	5.6	60
24	Mechanical properties and crystallization kinetics of Er-containing Cu-Zr-Al bulk metallic glasses with excellent glass forming ability. <i>Vacuum</i> , 2020, 174, 109223.	3.5	32
25	Microstructure Evolution and Mechanical Properties of the AZ91 Magnesium Alloy with Sr and Ti Additions in the As-Cast and As-Aged Conditions. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6853-6863.	2.5	17
26	Microstructure and mechanical properties of the Mg-Zn-Cu/SiCp composite in the as-cast and as-extruded conditions. <i>Journal of Materials Research</i> , 2019, 34, 3707-3716.	2.6	4
27	Amorphization and mechano-crystallization of high-energy ball milled Fe Ti alloys. <i>Journal of Non-Crystalline Solids</i> , 2019, 520, 119466.	3.1	14
28	Effect of Si and Ni on microstructure and mechanical properties of in-situ magnesium-based composites in the as-cast and extruded conditions. <i>Materials Chemistry and Physics</i> , 2019, 232, 305-310.	4.0	25
29	Micro-mechanisms and precipitation kinetics of delta (δ) phase in Inconel 718 superalloy during aging. <i>Journal of Alloys and Compounds</i> , 2019, 795, 207-212.	5.5	65
30	Homogenization kinetics of a typical nickel-based superalloy. <i>Journal of Alloys and Compounds</i> , 2019, 793, 277-282.	5.5	35
31	A new intermetallic phase formation in Mg Si Ni magnesium-based in-situ formed alloys. <i>Vacuum</i> , 2019, 164, 349-354.	3.5	27
32	Serration dynamics in the presence of chemical heterogeneities for a Cu-Zr based bulk metallic glass. <i>Journal of Alloys and Compounds</i> , 2019, 775, 298-303.	5.5	14
33	Effect of Pr on the grain refinement and mechanical properties of AM50 alloy in as-cast condition. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
34	Microstructure and mechanical properties of a Cu-Zr based bulk metallic glass containing atomic scale chemical heterogeneities. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 729, 433-438.	5.6	29
35	Crystallization kinetics of Cu ₄₇ Zr ₄₇ Al ₆ and (Cu ₄₇ Zr ₄₇ Al ₆) ₉₉ Sn ₁ bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2018, 498, 272-280.	3.1	26
36	Effects of Zr addition on solidification characteristics of Al-Zn-Mg-Cu alloy using thermal analysis. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 1457-1469.	3.6	14

#	ARTICLE	IF	CITATIONS
37	The influence of heat treatment on the structure and tensile properties of thin-section A356 aluminum alloy casts refined by Ti, B and Zr. Journal of Materials Research, 2017, 32, 3540-3547.	2.6	8