

Mehdi Divandari

List of Publications by Year in descending order

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papers

958
citations

516710

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454955

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docs citations

45
times ranked

514
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissimilar joining of Al/Mg light metals by compound casting process. <i>Journal of Materials Science</i> , 2011, 46, 6491-6499.	3.7	114
2	The effect of applied pressure on fracture surface and tensile properties of nickel coated continuous carbon fiber reinforced aluminum composites fabricated by squeeze casting. <i>Materials & Design</i> , 2010, 31, 2381-2386.	5.1	98
3	An investigation on the microstructure and tensile properties of direct squeeze cast and gravity die cast 2024 wrought Al alloy. <i>Materials & Design</i> , 2008, 29, 1685-1689.	5.1	86
4	Investigation on interface of Al/Cu couples in compound casting. <i>Materials Science and Technology</i> , 2013, 29, 190-196.	1.6	55
5	Oxide film characteristics of AZ91 magnesium alloy in casting conditions. <i>International Journal of Cast Metals Research</i> , 2007, 20, 215-220.	1.0	46
6	Effect of Applied Pressure and Nickel Coating on Microstructural Development in Continuous Carbon Fiber-Reinforced Aluminum Composites Fabricated by Squeeze Casting. <i>Materials and Manufacturing Processes</i> , 2011, 26, 599-603.	4.7	42
7	Intermetallic compounds and antiphase domains in Al/Mg compound casting. <i>Intermetallics</i> , 2012, 23, 182-186.	3.9	40
8	Oxide film characteristics of Al-7Si-Mg alloy in dynamic conditions in casting. <i>International Journal of Cast Metals Research</i> , 2004, 17, 182-187.	1.0	39
9	Study of Al/Cu rich phases formed in A356 alloy by inserting Cu wire in pattern in LFC process. <i>Materials & Design</i> , 2009, 30, 3279-3285.	5.1	39
10	Comparison between conventional and lost foam compound casting of Al/Mg light metals. <i>International Journal of Cast Metals Research</i> , 2013, 26, 43-50.	1.0	39
11	Microstructure Characteristics and Mechanical Properties of Al 413/Mg Joint in Compound Casting Process. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 4667-4677.	2.2	34
12	Morphology of oxide films of Al-5Mg alloy in dynamic conditions in casting. <i>International Journal of Cast Metals Research</i> , 2005, 18, 187-192.	1.0	28
13	Effect of Melt-to-Solid Insert Volume Ratio on Mg/Al Dissimilar Metals Bonding. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 123-130.	2.5	28
14	Effect of copper insert on the microstructure of gray iron produced via lost foam casting. <i>Materials & Design</i> , 2009, 30, 1085-1092.	5.1	27
15	Effect of high heating rate on thermal decomposition behaviour of titanium hydride (TiH ₂) powder in air. <i>Bulletin of Materials Science</i> , 2013, 36, 301-309.	1.7	27
16	Characteristics of dynamically formed oxide films on molten aluminium. <i>International Journal of Cast Metals Research</i> , 2012, 25, 270-276.	1.0	20
17	Controlled diffusion solidification processing: A review. <i>Journal of Materials Processing Technology</i> , 2017, 250, 203-219.	6.3	18
18	Investigation on thickness of short time oxide films in Al-1Mg and Al-2Mg alloys. <i>Materials Science and Technology</i> , 2012, 28, 1295-1300.	1.6	15

#	ARTICLE	IF	CITATIONS
19	Eutectic Nucleation in 7xxx Series Aluminum Alloys from a Non-classical Viewpoint. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 4572-4583.	2.2	15
20	On the Interfacial Characteristics of Compound Cast Al/Brass Bimetals. International Journal of Metalcasting, 2017, 11, 506-512.	1.9	13
21	Controlled Diffusion Solidification Pathway of an AA 7xxx Series Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 326-335.	2.2	13
22	Kinetics and mechanism of titanium hydride powder and aluminum melt reaction. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 165-172.	4.9	11
23	Effect of oxide film defects generated during mould filling on mechanical strength and reliability of magnesium alloy castings (AZ91). International Journal of Cast Metals Research, 2012, 25, 188-194.	1.0	10
24	On the dynamically formed oxide films in molten Mg. Journal of Magnesium and Alloys, 2020, 8, 219-230.	11.9	10
25	Characterization of TiCN thin films deposited by Dc-Pulsed PACVD using methane precursor. Materials Research, 2014, 17, 1651-1657.	1.3	9
26	A Critical Conception of Hot-Tearing Susceptibility: Shape Casting with Wrought Aluminum Alloys. International Journal of Metalcasting, 2022, 16, 853-870.	1.9	8
27	Estimation of the transient interfacial heat flux between substrate/melt at the initiation of magnesium solidification on aluminum substrates using the lumped capacitance method. Applied Surface Science, 2011, 257, 5077-5082.	6.1	7
28	Short-Time Oxidation of Al-Mg in Dynamic Conditions. Oxidation of Metals, 2020, 94, 409-429.	2.1	7
29	Study of Al/cast iron interface and graphite behavior. Journal of Mining and Metallurgy, Section B: Metallurgy, 2017, 53, 53-59.	0.8	7
30	Dissimilar Joining of Al/Mg Light Metals by Centrifugal Compound Casting Process. International Journal of Metalcasting, 2023, 17, 998-1007.	1.9	7
31	Microstructure of spheroidal graphite aluminum-alloyed cast irons (SGAACI) containing up to 7.5 wt% produced via in-mold process. International Journal of Metalcasting, 2021, 15, 271-280.	1.9	6
32	Interplay among Coating Thickness, Strip Size, and Thermal and Solidification Characteristics in A356 Lost Foam Casting Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2304-2315.	2.1	5
33	A New Insight to Dynamic Oxidation of Molten Metals by the Parametric Study of Oxide/Metal/Oxide Sandwich Formation. International Journal of Metalcasting, 2020, 14, 949-961.	1.9	5
34	Characteristics of Dynamically Formed Oxide Films in Al-Zn Melt. International Journal of Metalcasting, 2021, 15, 747-762.	1.9	5
35	Surface oxidation study of molten Mg-Al alloys by oxide/metal/oxide sandwich method. Journal of Magnesium and Alloys, 2022, 10, 1704-1717.	11.9	5
36	Investigation of electroless copper plating on polyurethane foam, as an initial step of open cell foam production process. Transactions of the Institute of Metal Finishing, 2015, 93, 186-189.	1.3	4

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37	Effect of strips size and coating thickness on fluidity of A356 aluminium alloy in lost foam casting process. International Journal of Cast Metals Research, 2010, 23, 23-29.	1.0	3
38	Effect of magnesium and nickel coatings on the wetting behavior of alumina toughened zirconia by molten Al-Mg alloy. International Journal of Minerals, Metallurgy and Materials, 2012, 19, 77-82.	4.9	3
39	Effect of the Modified Ablation Casting Process on the Mechanical Properties and Microstructure of Near Eutectic Al-Si Alloy. International Journal of Metalcasting, 2022, 16, 1557-1574.	1.9	3
40	Characteristic Investigation of the As-Received Samples: Nano-Oxides in Al-5Mg-Be Melt. International Journal of Metalcasting, 2023, 17, 334-341.	1.9	3
41	Introducing a Method to Determine Nonautoclaved Aerated Concrete Air content Based on Packing Theory. Journal of Materials in Civil Engineering, 2018, 30, 04017312.	2.9	2
42	Increasing the Liquidus Temperature by Employing the Controlled Diffusion Solidification (CDS) Process: A Potential Route to Improved Castings. IOP Conference Series: Materials Science and Engineering, 2019, 529, 012044.	0.6	2
43	A Critical Conception of Hot-Tearing Susceptibility: How Controlled Diffusion Solidification Enables Shape-Casting with Wrought Aluminum Alloys. SSRN Electronic Journal, 0, , .	0.4	0
44	Numerical study of the effect of geometric parameters on compressive mechanical properties of metallic lattice cylinders. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 0, , 095440622110590.	2.1	0
45	High-Temperature Oxidation Behavior of Spheroidal Graphite Cast Irons Containing up to 7.5 wt% Aluminum at 750°C in Static Air. Oxidation of Metals, 0, , 1.	2.1	0