Jinwu kang

List of Publications by Year
in descending order

36 papers	612 citations	777949 13 h-index	685536 24 g-index
39 all docs	39 docs citations	39 times ranked	495 citing authors

#	Article	IF	Citations
1	Chimney Structure of Hollow Sand Mold for Casting Solidification. Metals, 2022, 12, 415.	1.0	2
2	Numerical simulation of the directional solidification process with multi-shell mold being gradually immersed in water. Journal of Materials Research and Technology, 2022, 19, 2705-2716.	2.6	1
3	Microstructure and mechanical behavior of bright crescent areas in Inconel 718 sample fabricated by selective laser melting. Materials and Design, 2021, 197, 109259.	3.3	10
4	3D Phase Field Modeling of Multi-Dendrites Evolution in Solidification and Validation by Synchrotron X-ray Tomography. Materials, 2021, 14, 520.	1.3	2
5	High-throughput investigation of laser powder bed fabricated Inconel 718 alloy: Fabrication, microstructure and performance. Materials Today Communications, 2021, 27, 102303.	0.9	1
6	The dynamic arch bending mechanism of flat bridge structure of AlSi10Mg during SLM process. Materials and Design, 2020, 188, 108469.	3.3	12
7	Study on the Directional Solidification Process of an Aluminum Alloy Bar in Multishell Mold Being Gradually Immersed in Water. Materials, 2020, 13, 2197.	1.3	9
8	Modeling and Simulation of the Casting Process with Skeletal Sand Mold. Materials, 2020, 13, 1596.	1.3	5
9	Effect of Layer-Wise Varying Parameters on the Microstructure and Soundness of Selective Laser Melted INCONEL 718 Alloy. Materials, 2019, 12, 2165.	1.3	12
10	Effect of laser energy density on the microstructure, mechanical properties, and deformation of Inconel 718 samples fabricated by selective laser melting. Journal of Alloys and Compounds, 2019, 786, 481-488.	2.8	94
11	Effect of Scanning Routes on the Stress and Deformation of Overhang Structures Fabricated by SLM. Materials, 2019, 12, 47.	1.3	16
12	On the mechanism of dendritic fragmentation by ultrasound induced cavitation. Ultrasonics Sonochemistry, 2019, 51, 160-165.	3.8	32
13	In situ high speed imaging study and modelling of the fatigue fragmentation of dendritic structures in ultrasonic fields. Acta Materialia, 2019, 165, 388-397.	3.8	58
14	3D-printed rib-enforced shell sand mold for aluminum castings. International Journal of Advanced Manufacturing Technology, 2018, 96, 2175-2182.	1.5	20
15	Effects of hollow structures in sand mold manufactured using 3D printing technology. Journal of Materials Processing Technology, 2018, 255, 516-523.	3.1	36
16	A Study on the Effect of Ultrasonic Treatment on the Microstructure of Sn-30 wt.% Bi Alloy. Materials, 2018, 11, 1870.	1.3	3
17	The Design of 3D-Printed Lattice-Reinforced Thickness-Varying Shell Molds for Castings. Materials, 2018, 11, 535.	1.3	14
18	Study on the Selective Laser Melting of CuSn10 Powder. Materials, 2018, 11, 614.	1.3	35

#	Article	IF	Citations
19	Dendrites fragmentation induced by oscillating cavitation bubbles in ultrasound field. Ultrasonics, 2018, 83, 26-32.	2.1	38
20	3D-printed shell-truss sand mold for aluminum castings. Journal of Materials Processing Technology, 2017, 250, 247-253.	3.1	47
21	Numerical simulation of the macrostructure evolution of a heavy steel ingot. Materials Science and Technology, 2017, 33, 574-582.	0.8	1
22	Stereo 3D spatial phase diagrams. Journal of Alloys and Compounds, 2016, 673, 309-313.	2.8	5
23	The comparison of ultrasonic effects in different metal melts. Ultrasonics, 2015, 57, 11-17.	2.1	38
24	The effect of ultrasonic processing on solidification microstructure and heat transfer in stainless steel melt. Ultrasonics Sonochemistry, 2015, 27, 307-315.	3.8	39
25	Reply to Discussion of â€œObservation of the Mold Filling Process of a Large Hydro-Turbine Guide Vane Castingâ€• Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1564-1564.	1.0	0
26	Observation of the Mold-Filling Process of a Large Hydro-Turbine Guide Vane Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 337-344.	1.0	2
27	Intensive riser cooling of castings after solidification. Journal of Materials Processing Technology, 2015, 215, 278-286.	3.1	12
28	Ultrasonic Treatment of the 304 Stainless Steel Melt. ISIJ International, 2014, 54, 281-287.	0.6	15
29	Water Analog Experimental Method for the Diffusion and Distribution of Alloy Elements in Liquid Steel during Ingot Filling Process. ISIJ International, 2014, 54, 275-280.	0.6	4
30	Deformation Prediction of a Heavy Hydro Turbine Blade During the Casting Process with Consideration of Martensitic Transformation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5343-5353.	1.1	3
31	Distortion behavior of hydro turbine blade castings during heat treatment processes under variation of seasonal temperature. Science China Technological Sciences, 2011, 54, 81-87.	2.0	1
32	Effect of processing parameters on thermal phenomena in direct laser metallic powder deposition. Tsinghua Science and Technology, 2009, 14, 154-159.	4.1	3
33	Thermal stresses in a cylinder block casting due to coupled thermal and mechanical effects. Tsinghua Science and Technology, 2008, 13, 132-136.	4.1	6
34	A study on the numerical simulation of thermal stress during the solidification of shaped castings. Science and Technology of Advanced Materials, 2001, 2, 157-164.	2.8	34
35	Numerical simulation of thermal stress and deformation of engine block iron casting. International Journal of Cast Metals Research, 1999, 11, 501-506.	0.5	1
36	A Way to Control Distortion of Metal Parts during Heat Treatment Process. , 0, , 201-207.		0