

Jun Li

List of Publications by Year in descending order

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30
papers

444
citations

840776

11
h-index

752698

20
g-index

30
all docs

30
docs citations

30
times ranked

390
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal/Semiconductor Nanocomposites for Photocatalysis: Fundamentals, Structures, Applications and Properties. <i>Nanomaterials</i> , 2019, 9, 359.	4.1	78
2	Four-Phase Dendritic Model for the Prediction of Macrosegregation, Shrinkage Cavity, and Porosity in a 55-Ton Ingot. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 1139-1150.	2.2	38
3	Solute enrichment induced dendritic fragmentation in directional solidification of nickel-based superalloys. <i>Acta Materialia</i> , 2021, 215, 117043.	7.9	38
4	Thermal-solutal-fluid flow of channel segregation during directional solidification of single-crystal nickel-based superalloys. <i>Acta Materialia</i> , 2021, 206, 116620.	7.9	34
5	Martensitic transformations and kinetics in Ni-Mn-In-Mg shape memory alloys. <i>Intermetallics</i> , 2018, 92, 49-54.	3.9	26
6	Modelling of ingot size effects on macrosegregation in steel castings. <i>Journal of Materials Processing Technology</i> , 2018, 252, 362-369.	6.3	24
7	Dendritic model for macrosegregation prediction of large scale castings. <i>Journal of Materials Processing Technology</i> , 2016, 227, 308-317.	6.3	21
8	Microstructure and magnetic property of LaFe _{11.6} Si _{1.4} magnetocaloric alloys by a novel short time heat treatment. <i>Intermetallics</i> , 2019, 105, 1-5.	3.9	15
9	Simulation of dendritic remelting and fragmentation using coupled cellular automaton and Eulerian multiphase model. <i>Computational Materials Science</i> , 2020, 180, 109714.	3.0	14
10	Design of variable withdrawal rate for superalloy single-crystal blade fabrication. <i>Materials and Design</i> , 2021, 198, 109347.	7.0	14
11	Simulation of Macrosegregation and Shrinkage Cavity in an Al-4.5 Wt Pct Cu Ingot Using a Four-Phase Model. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 6243-6254.	2.2	13
12	On the Driving Forces of Magnetically Induced Martensitic Transformation in Directionally Solidified Polycrystalline Ni-Mn-In Meta-Magnetic Shape Memory Alloy with Structural Anisotropy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 5480-5491.	2.2	12
13	Modelling of Inclusion Effects on Macrosegregation in Solidifying Steel Ingot with a Multi-phase Approach. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 1323-1332.	2.2	12
14	Peritectic Solidification Path of the La(Fe,Si) ₁₃ Phase in Dual-Phase Directionally Solidified La-Fe-Si Magnetocaloric Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4229-4236.	2.2	11
15	Gradual-cooling solidification approach to alleviate macrosegregation in large steel ingots. <i>Journal of Materials Processing Technology</i> , 2018, 262, 232-238.	6.3	11
16	A Homogeneous Billet Layer Casting Fabrication Method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4453-4457.	2.2	9
17	Martensite transformation, mechanical properties and shape memory effects of Ni-Mn-In-Mg shape memory alloys. <i>Progress in Natural Science: Materials International</i> , 2018, 28, 60-65.	4.4	9
18	Direct formation of La(Fe,Si) ₁₃ phase with enhanced mechanical property of off-stoichiometric La _{1.7} Fe _{11.6} Si _{1.4} alloys by directional solidification. <i>Journal of Alloys and Compounds</i> , 2020, 817, 152694.	5.5	9

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19	Tuning martensite transformation behavior and magneto-caloric effect in Ni ₄₄ Mn ₃₆ In ₁₄ Co ₆ alloy through doping the fifth element Cu. <i>Journal of Alloys and Compounds</i> , 2020, 817, 153150.	5.5	8
20	A comprehensive study of layer casting process by a four-phase filling-solidification model. <i>Journal of Materials Processing Technology</i> , 2020, 284, 116737.	6.3	7
21	Interaction of MnS inclusion behaviors and macrosegregation during solidification by multi-phase modelling. <i>Journal of Materials Processing Technology</i> , 2021, 297, 117243.	6.3	7
22	Î³-variant-sensitive deformation behaviour of Inconel 718 superalloy. <i>Journal of Materials Science and Technology</i> , 2022, 126, 169-181.	10.7	7
23	Photo-improved hydrogen evolution reaction activity of the Pt/CdS electrocatalyst. <i>Progress in Natural Science: Materials International</i> , 2019, 29, 379-383.	4.4	6
24	A high-throughput study of magnetocaloric materials: Gradient solidification applied to La-Fe-Si. <i>Intermetallics</i> , 2019, 108, 100-108.	3.9	6
25	Orientation Relationship Between Magnetic Domains and Twins in Ni ₅₂ Fe ₁₇ Ga ₂₇ Co ₄ Magnetic Shape Memory Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 2675-2681.	2.2	4
26	Internal friction behaviors of Ni-Mn-In magnetic shape memory alloy with two-step structural transformation. <i>Progress in Natural Science: Materials International</i> , 2017, 27, 356-361.	4.4	4
27	Reduced Annealing Time and Enhanced Magnetocaloric Effect of La(Fe, Al) ₁₃ Alloy by La-nonstoichiometry and Si-doping. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 1535-1542.	2.9	3
28	Numerical Simulation of A-Segregation Evolution in a 55-Ton Ingot Using Four-Phase Solidification Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 2992-3003.	2.1	3
29	Effect of Heterophase Interfaces on Microstructure and Crystallographic Texture Evolution During Rolling of Directionally Solidified Ag-Cu Eutectic Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 368-379.	2.2	1
30	A Novel Heat Treatment Process for Surface Hardening of Steel: Metal Melt Surface Hardening. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 3975-3979.	2.2	0