

Mujun Long

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Thickness Distributions of Mold Flux Film and Air Gap in Billet Ultra-High Speed Continuous Casting Mold Through Multiphysics Modeling. <i>Frontiers in Materials</i> , 2022, 9, .	2.4	2
2	Comprehensive Utilization of Boron-Concentrate by Hydrometallurgy. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 244-255.	2.3	4
3	Temperature Distribution in the As-Cast Steel Specimen During Gleeble Hot-Tensile Test and Its Effect on High-Temperature Mechanical Properties. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1228-1242.	2.1	7
4	Experimental study on evolution of oxidation behavior on high-temperature continuous casting slab surface. <i>Journal of Materials Research and Technology</i> , 2021, 11, 2049-2058.	5.8	6
5	Temperature errors in two-color pyrometry simultaneously considering reï-,ection and combustion gas radiation. <i>Optics Express</i> , 2021, 29, 25084.	3.4	5
6	Mechanistic study of Cu-Ni bimetallic catalysts supported by graphene derivatives for hydrogenation of CO ₂ to methanol. <i>Journal of CO₂ Utilization</i> , 2021, 49, 101542.	6.8	21
7	Thermodynamic study on the solute partition coefficients on L/ $\hat{\Gamma}$ and L/ $\hat{\Gamma}$ + $\hat{\Gamma}^3$ phase interfaces for 1215 high-sulfur steel solidification by orthogonal design. <i>Journal of Materials Research and Technology</i> , 2020, 9, 89-103.	5.8	13
8	The Formation of Humps and Ripples During Selective Laser Melting of 316l Stainless Steel. <i>Jom</i> , 2020, 72, 1128-1137.	1.9	12
9	Investigation of the Peritectic Phase Transition in a Commercial Peritectic Steel Under Different Cooling Rates Using In Situ Observation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 338-352.	2.1	27
10	Numerical Simulation of Heat Transfer between Roll and Slab under Dry Secondary Cooling in Ultrathick Slab Continuous Casting. <i>Steel Research International</i> , 2020, 91, 1900516.	1.8	2
11	Hydraulic Modeling on Flow Behavior in High-Speed Billet Continuous Casting Mold Considering Hydrostatic Pressure and Solidified Shell. <i>Metals</i> , 2020, 10, 1226.	2.3	4
12	Study on the prediction of tensile strength and phase transition for ultra-high strength hot stamping steel. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14244-14253.	5.8	14
13	Melting and Flowing Behavior of Mold Flux in a Continuous Casting Billet Mold for Ultra-High Speed. <i>Metals</i> , 2020, 10, 1165.	2.3	9
14	Study on the precipitation and coarsening of TiN inclusions in Ti-microalloyed steel by a modified coupling model. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5499-5514.	5.8	15
15	Control of Coarse Precipitates of Titanium Nitride in High-Strength Low-Alloy Steel. <i>Metal Science and Heat Treatment</i> , 2020, 61, 534-542.	0.6	5
16	Experimental simulation on the high-temperature friction property of slag in slab continuous casting mold. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6453-6463.	5.8	2
17	The Reduction of Cu ²⁺ Promoted by Zn or Ni on rGO. <i>Jom</i> , 2020, 72, 4458-4465.	1.9	5
18	Ab Initio Calculations on Elastic Properties of IF Steel Matrix Phase at High Temperature Based on Lattice Expansion Theory. <i>Metals</i> , 2020, 10, 283.	2.3	6

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19	Transient flow and mold flux behavior during ultra-high speed continuous casting of billet. Journal of Materials Research and Technology, 2020, 9, 3984-3993.	5.8	15
20	An Approach for Modelling Slag Infiltration and Heat Transfer in Continuous Casting Mold for High Mn High Al Steel. Metals, 2020, 10, 51.	2.3	7
21	Ab Initio Study on Continuous Evolution of Mechanical Properties in Phase Transition Region of Low Carbon Steel. Steel Research International, 2020, 91, 2000070.	1.8	5
22	Evolution of Phase Transition and Mechanical Properties of Ultra-High Strength Hot-Stamped Steel During Quenching Process. Metals, 2020, 10, 138.	2.3	13
23	Numerical Analysis of Molten Pool Behavior and Spatter Formation with Evaporation During Selective Laser Melting of 316L Stainless Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2273-2283.	2.1	15
24	Investigations of the peritectic reaction and transformation in a hypo-peritectic steel: Using high-temperature confocal scanning laser microscopy and differential scanning calorimetry. Materials Characterization, 2019, 156, 109870.	4.4	17
25	Quantitative effects of phase transition on solute partition coefficient, inclusion precipitation, and microsegregation for high-sulfur steel solidification. Journal of Materials Science and Technology, 2019, 35, 2383-2395.	10.7	21
26	Thermal Behavior During the Selective Laser Melting Process of Ti-6Al-4V Powder in the Point Exposure Scan Pattern. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 2804-2814.	2.1	6
27	Effect of hot water vapor on strand surface temperature measurement in steel continuous casting. International Journal of Thermal Sciences, 2019, 138, 467-479.	4.9	16
28	Quantifying the Effects of Combustion Gases Radiation on Surface Temperature Measurements Using Two-Color Pyrometry. Energy & Fuels, 2019, 33, 3610-3619.	5.1	13
29	Coupled effects of reflection and absorptive gas mixture on surface temperature determined by single color pyrometer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2019, 228, 111-123.	2.3	6
30	Effect of the mold corner structure on the friction behavior in slab continuous casting molds. Journal of Materials Processing Technology, 2019, 270, 157-167.	6.3	7
31	Effect of the strand corner structure on the corner stress during the bending and straightening processes in slab continuous casting. Journal of Manufacturing Processes, 2019, 48, 270-282.	5.9	4
32	Numerical modeling of centerline segregation by a combined 3-D and 2-D hybrid model during slab continuous casting. Journal of Materials Research, 2018, 33, 989-1002.	2.6	5
33	Stress and Friction Distribution around Slab Corner in Continuous Casting Mold with Different Corner Structures. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 866-876.	2.1	9
34	Dilatometric determination of four critical temperatures and phase transition fraction for austenite decomposition in hypo-eutectoid steels using peak separation method. Journal of Materials Research, 2018, 33, 967-977.	2.6	13
35	Uniform Secondary Cooling Pattern for Minimizing Surface Reheating of the Strand During Round Bloom Continuous Casting. Jom, 2018, 70, 237-242.	1.9	6
36	Crystallization Behaviors of Anosovite and Silicate Crystals in High CaO and MgO Titanium Slag. Metals, 2018, 8, 754.	2.3	10

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37	Effects of Inclusion Precipitation, Partition Coefficient, and Phase Transition on Microsegregation for High-Sulfur Steel Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3280-3292.	2.1	23
38	CuO \cdot ZnO anchored on APS modified activated carbon as an enhanced catalyst for methanol synthesis \cdot The role of ZnO. Journal of Materials Research, 2018, 33, 1625-1631.	2.6	8
39	Using differential scanning calorimetry to characterize the precipitation and dissolution of V(CN) and VC particles during continuous casting and reheating process. Journal of Materials Research, 2018, 33, 2784-2795.	2.6	1
40	Numerical study on the characteristics of solute distribution and the formation of centerline segregation in continuous casting (CC) slab. International Journal of Heat and Mass Transfer, 2018, 126, 843-853.	4.8	40
41	Fluid Flow and Solidified Shell Remelting in F-EMS During Billet Continuous Casting. Jom, 2018, 70, 2059-2064.	1.9	6
42	A new wavelength selection criterion for two-color pyrometer interfered with participating media. Infrared Physics and Technology, 2018, 93, 136-143.	2.9	9
43	Effect of MnS precipitation on solute equilibrium partition coefficients in high sulfur steel during solidification. Journal of Materials Research, 2018, 33, 3490-3500.	2.6	9
44	Research on the On \cdot Line Simulation of a Three \cdot Dimensional Temperature Field Model of Slab Continuous Casting. Steel Research International, 2018, 89, 1800091.	1.8	5
45	Longitudinal spin fluctuation contribution to thermal lattice expansion of paramagnetic Fe. Physical Review B, 2017, 95, .	3.2	25
46	Production of Synthetic Rutile from Molten Titanium Slag with the Addition of B ₂ O ₃ . Jom, 2017, 69, 1914-1919.	1.9	16
47	Modeling on solute enrichment and inclusion precipitation during the solidification process of high sulfur steel slab. Journal of Materials Research, 2017, 32, 3854-3863.	2.6	7
48	Variations in the True Density and Sulfur Removal Forms of Petroleum Coke during an Ultrahigh-Temperature Desulfurization Process. Energy & Fuels, 2017, 31, 7693-7699.	5.1	6
49	Effects of Partition Coefficients, Diffusion Coefficients, and Solidification Paths on Microsegregation in Fe-Based Multinary Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2504-2515.	2.1	28
50	Elastic properties of paramagnetic austenitic steel at finite temperature: Longitudinal spin fluctuations in multicomponent alloys. Physical Review B, 2017, 96, .	3.2	15
51	Fluid flow and heat transfer behavior of liquid steel in slab mold with different corner structures. Part 1: Mathematical model and verification. Numerical Heat Transfer; Part A: Applications, 2017, 72, 642-656.	2.1	10
52	Fluid flow and heat transfer behavior of liquid steel in slab mold with different corner structures. Part 2: Fluid flow, heat transfer, and solidification characteristics. Numerical Heat Transfer; Part A: Applications, 2017, 72, 657-668.	2.1	5
53	Phase Transition of Peritectic Steel Q345 and Its Effect on the Equilibrium Partition Coefficients of Solutes. Metals, 2017, 7, 288.	2.3	15
54	Study on the Fluid Flow in a Semi-Open-Stream-Poured Beam Blank Continuous Casting Mold with Submerged Refractory Funnels by Multiphase Modeling. Metals, 2016, 6, 104.	2.3	6

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55	Computation of Phase Fractions in Austenite Transformation with the Dilation Curve for Various Cooling Regimens in Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1553-1564.	2.1	4
56	Analysis on the dynamic extension for transverse surface cracks in the as-cast steel slab at high temperatures. Engineering Failure Analysis, 2016, 66, 341-353.	4.0	6
57	Numerical Analysis of Coupled Turbulent Flow and Macroscopic Solidification in a Round Bloom Continuous Casting Mold with Electromagnetic Stirring. Steel Research International, 2015, 86, 1104-1115.	1.8	48
58	Effect of Temperature Reversion on Hot Ductility and Flow Stress-Strain Curves of C-Mn Continuously Cast Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1885-1894.	2.1	3
59	Universal Secondary Cooling Structure for Round Blooms Continuous Casting of Steels in Various Diameters. Steel Research International, 2015, 86, 154-162.	1.8	6
60	Recovery of Vanadium from a High Ca/V Ratio Vanadium Slag Using Sodium Roasting and Ammonia Leaching. , 2014, , 613-622.		0
61	A Three-Dimensional Cellular Automata Model for Dendrite Growth with Various Crystallographic Orientations During Solidification. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 719-725.	2.1	13
62	Mathematical Modeling of Heat Transfer in Mold Copper Coupled with Cooling Water During the Slab Continuous Casting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2442-2452.	2.1	22
63	Hydraulics and Mathematics Simulation on the Weir and Gas Curtain in Tundish of Ultrathick Slab Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 392-398.	2.1	45
64	Investigation on Water Model for Fluid Flow in Slab Continuous Casting Mold With Consideration of Solidified Process. Steel Research International, 2013, 84, 31-39.	1.8	19
65	Effect of uneven solidification on the quality of continuous casting slab. International Journal of Materials and Product Technology, 2013, 47, 216.	0.2	15
66	Compensation Control Model of Superheat and Cooling Water Temperature for Secondary Cooling of Continuous Casting. Steel Research International, 2011, 82, 213-221.	1.8	50
67	Study on Mitigating Center Macro-Segregation During Steel Continuous Casting Process. Steel Research International, 2011, 82, 847-856.	1.8	38
68	Kinetic Modeling on Nozzle Clogging During Steel Billet Continuous Casting. ISIJ International, 2010, 50, 712-720.	1.4	45
69	A Simple Model to Calculate Dendrite Growth Rate during Steel Continuous Casting Process. ISIJ International, 2010, 50, 1792-1796.	1.4	8
70	Study on Mathematical Model of Temperature and Stress for Thin Slab in Continuous Casting. , 2009, , .		1