

Mujun Long

List of Publications by Year in descending order

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papers

904
citations

567281

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Compensation Control Model of Superheat and Cooling Water Temperature for Secondary Cooling of Continuous Casting. <i>Steel Research International</i> , 2011, 82, 213-221.	1.8	50
2	Numerical Analysis of Coupled Turbulent Flow and Macroscopic Solidification in a Round Bloom Continuous Casting Mold with Electromagnetic Stirring. <i>Steel Research International</i> , 2015, 86, 1104-1115.	1.8	48
3	Kinetic Modeling on Nozzle Clogging During Steel Billet Continuous Casting. <i>ISIJ International</i> , 2010, 50, 712-720.	1.4	45
4	Hydraulics and Mathematics Simulation on the Weir and Gas Curtain in Tundish of Ultrathick Slab Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 392-398.	2.1	45
5	Numerical study on the characteristics of solute distribution and the formation of centerline segregation in continuous casting (CC) slab. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 843-853.	4.8	40
6	Study on Mitigating Center Macro-segregation During Steel Continuous Casting Process. <i>Steel Research International</i> , 2011, 82, 847-856.	1.8	38
7	Effects of Partition Coefficients, Diffusion Coefficients, and Solidification Paths on Microsegregation in Fe-Based Multinary Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 2504-2515.	2.1	28
8	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
9	Longitudinal spin fluctuation contribution to thermal lattice expansion of paramagnetic Fe. <i>Physical Review B</i> , 2017, 95, .	3.2	25
10	Effects of Inclusion Precipitation, Partition Coefficient, and Phase Transition on Microsegregation for High-Sulfur Steel Solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3280-3292.	2.1	23
11	Mathematical Modeling of Heat Transfer in Mold Copper Coupled with Cooling Water During the Slab Continuous Casting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 2442-2452.	2.1	22
12	Quantitative effects of phase transition on solute partition coefficient, inclusion precipitation, and microsegregation for high-sulfur steel solidification. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2383-2395.	10.7	21
13	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
14	Investigation on Water Model for Fluid Flow in Slab Continuous Casting Mold With Consideration of Solidified Process. <i>Steel Research International</i> , 2013, 84, 31-39.	1.8	19
15	Investigations of the peritectic reaction and transformation in a hypo-peritectic steel: Using high-temperature confocal scanning laser microscopy and differential scanning calorimetry. <i>Materials Characterization</i> , 2019, 156, 109870.	4.4	17
16	Production of Synthetic Rutile from Molten Titanium Slag with the Addition of B ₂ O ₃ . <i>Jom</i> , 2017, 69, 1914-1919.	1.9	16
17	Effect of hot water vapor on strand surface temperature measurement in steel continuous casting. <i>International Journal of Thermal Sciences</i> , 2019, 138, 467-479.	4.9	16
18	Effect of uneven solidification on the quality of continuous casting slab. <i>International Journal of Materials and Product Technology</i> , 2013, 47, 216.	0.2	15

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19	Elastic properties of paramagnetic austenitic steel at finite temperature: Longitudinal spin fluctuations in multicomponent alloys. <i>Physical Review B</i> , 2017, 96, .	3.2	15
20	Phase Transition of Peritectic Steel Q345 and Its Effect on the Equilibrium Partition Coefficients of Solutes. <i>Metals</i> , 2017, 7, 288.	2.3	15
21	Numerical Analysis of Molten Pool Behavior and Spatter Formation with Evaporation During Selective Laser Melting of 316L Stainless Steel. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2273-2283.	2.1	15
22	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
23	Transient flow and mold flux behavior during ultra-high speed continuous casting of billet. <i>Journal of Materials Research and Technology</i> , 2020, 9, 3984-3993.	5.8	15
24	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
25	A Three-Dimensional Cellular Automata Model for Dendrite Growth with Various Crystallographic Orientations During Solidification. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 719-725.	2.1	13
26	Dilatometric determination of four critical temperatures and phase transition fraction for austenite decomposition in hypo-eutectoid steels using peak separation method. <i>Journal of Materials Research</i> , 2018, 33, 967-977.	2.6	13
27	Quantifying the Effects of Combustion Gasesâ€™ Radiation on Surface Temperature Measurements Using Two-Color Pyrometry. <i>Energy & Fuels</i> , 2019, 33, 3610-3619.	5.1	13
28	Thermodynamic study on the solute partition coefficients on L/ δ and L/ δ + β 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
29	Evolution of Phase Transition and Mechanical Properties of Ultra-High Strength Hot-Stamped Steel During Quenching Process. <i>Metals</i> , 2020, 10, 138.	2.3	13
30	The Formation of Humps and Ripples During Selective Laser Melting of 316L Stainless Steel. <i>Jom</i> , 2020, 72, 1128-1137.	1.9	12
31	Fluid flow and heat transfer behavior of liquid steel in slab mold with different corner structures. Part 1: Mathematical model and verification. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 642-656.	2.1	10
32	Crystallization Behaviors of Anosovite and Silicate Crystals in High CaO and MgO Titanium Slag. <i>Metals</i> , 2018, 8, 754.	2.3	10
33	Stress and Friction Distribution around Slab Corner in Continuous Casting Mold with Different Corner Structures. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 866-876.	2.1	9
34	A new wavelength selection criterion for two-color pyrometer interfered with participating media. <i>Infrared Physics and Technology</i> , 2018, 93, 136-143.	2.9	9
35	Effect of MnS precipitation on solute equilibrium partition coefficients in high sulfur steel during solidification. <i>Journal of Materials Research</i> , 2018, 33, 3490-3500.	2.6	9
36	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

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37	A Simple Model to Calculate Dendrite Growth Rate during Steel Continuous Casting Process. <i>ISIJ International</i> , 2010, 50, 1792-1796.	1.4	8
38	CuOâ€ZnO anchored on APS modified activated carbon as an enhanced catalyst for methanol synthesisâ€”The role of ZnO. <i>Journal of Materials Research</i> , 2018, 33, 1625-1631.	2.6	8
39	Modeling on solute enrichment and inclusion precipitation during the solidification process of high sulfur steel slab. <i>Journal of Materials Research</i> , 2017, 32, 3854-3863.	2.6	7
40	Effect of the mold corner structure on the friction behavior in slab continuous casting molds. <i>Journal of Materials Processing Technology</i> , 2019, 270, 157-167.	6.3	7
41	An Approach for Modelling Slag Infiltration and Heat Transfer in Continuous Casting Mold for High Mnâ€High Al Steel. <i>Metals</i> , 2020, 10, 51.	2.3	7
42	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
43	Universal Secondary Cooling Structure for Round Blooms Continuous Casting of Steels in Various Diameters. <i>Steel Research International</i> , 2015, 86, 154-162.	1.8	6
44	Study on the Fluid Flow in a Semi-Open-Stream-Poured Beam Blank Continuous Casting Mold with Submerged Refractory Funnels by Multiphase Modeling. <i>Metals</i> , 2016, 6, 104.	2.3	6
45	Analysis on the dynamic extension for transverse surface cracks in the as-cast steel slab at high temperatures. <i>Engineering Failure Analysis</i> , 2016, 66, 341-353.	4.0	6
46	Variations in the True Density and Sulfur Removal Forms of Petroleum Coke during an Ultrahigh-Temperature Desulfurization Process. <i>Energy & Fuels</i> , 2017, 31, 7693-7699.	5.1	6
47	Uniform Secondary Cooling Pattern for Minimizing Surface Reheating of the Strand During Round Bloom Continuous Casting. <i>Jom</i> , 2018, 70, 237-242.	1.9	6
48	Fluid Flow and Solidified Shell Remelting in F-EMS During Billet Continuous Casting. <i>Jom</i> , 2018, 70, 2059-2064.	1.9	6
49	Thermal Behavior During the Selective Laser Melting Process of Ti-6Al-4V Powder in the Point Exposure Scan Pattern. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2804-2814.	2.1	6
50	Coupled effects of reflection and absorptive gas mixture on surface temperature determined by single color pyrometer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 228, 111-123.	2.3	6
51	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
52	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
53	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. <i>Numerical Heat Transfer; Part A: Applications</i> , 2017, 72, 657-668.	2.1	5
54	Numerical modeling of centerline segregation by a combined 3-D and 2-D hybrid model during slab continuous casting. <i>Journal of Materials Research</i> , 2018, 33, 989-1002.	2.6	5

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55	Research on the On-Line Simulation of a Three-Dimensional Temperature Field Model of Slab Continuous Casting. <i>Steel Research International</i> , 2018, 89, 1800091.	1.8	5
56	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
57	The Reduction of Cu ²⁺ Promoted by Zn or Ni on rGO. <i>Jom</i> , 2020, 72, 4458-4465.	1.9	5
58	Ab Initio Study on Continuous Evolution of Mechanical Properties in Phase-Transition Region of Low-Carbon Steel. <i>Steel Research International</i> , 2020, 91, 2000070.	1.8	5
59	Temperature errors in two-color pyrometry simultaneously considering reflection and combustion gas radiation. <i>Optics Express</i> , 2021, 29, 25084.	3.4	5
60	Computation of Phase Fractions in Austenite Transformation with the Dilation Curve for Various Cooling Regimens in Continuous Casting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 1553-1564.	2.1	4
61	Effect of the strand corner structure on the corner stress during the bending and straightening processes in slab continuous casting. <i>Journal of Manufacturing Processes</i> , 2019, 48, 270-282.	5.9	4
62	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
63	Comprehensive Utilization of Boron-Concentrate by Hydrometallurgy. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 244-255.	2.3	4
64	Effect of Temperature Reversion on Hot Ductility and Flow Stress-Strain Curves of C-Mn Continuously Cast Steels. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1885-1894.	2.1	3
65	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
66	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
67	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
68	Study on Mathematical Model of Temperature and Stress for Thin Slab in Continuous Casting. , 2009, , .		1
69	Using differential scanning calorimetry to characterize the precipitation and dissolution of V(CN) and VC particles during continuous casting and reheating process. <i>Journal of Materials Research</i> , 2018, 33, 2784-2795.	2.6	1
70	Recovery of Vanadium from a High Ca/V Ratio Vanadium Slag Using Sodium Roasting and Ammonia Leaching. , 2014, , 613-622.		0