Qiangqiang Wang

List of Publications by Year
in descending order

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35	542	840776 11	677142 22
papers	citations	h-index	g-index

36	36	36	205
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Dispersant on the Dispersibility of CaOâ€“Al2O3-Based Mold Powder Slurry. Transactions of the Indian Institute of Metals, 2022, 75, 473-479.	1.5	2
2	Influence of Al₂O₃/SiO₂ and BaO/Al₂O₃ Ratios on Rheological and Crystallization Behavior of CaOâ€“BaOâ€“Al₂O₃-Based Mold Slags. ISIJ International, 2022, 62, 1116-1125.	1.4	4
3	Influence of Submerged Entry Nozzle Clogging on the Flow Field and Slag Entrainment in the Continuous Casting Mold by the Physical Model. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2022, 53, 1436-1445.	2.1	9
4	Influence of Interfacial Thermal Resistance on Initial Solidification and Heat Transfer in Continuous Casting Mold of Steel. Steel Research International, 2021, 92, 2000636.	1.8	7
5	3D Coupled Model on Dynamic Initial Solidification and Slag Infiltration at the Corner of Slab Continuous Casting Mold. Steel Research International, 2021, 92, 2100101.	1.8	5
6	Three-Dimensional Spatial Distribution of Non-metallic Inclusions on the Entire Cross Section of a Steel Continuous Casting Slab. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3497-3514.	2.1	5
7	Effect of MgO on solidification and crystallization properties of ultrahigh-basicity mold flux. Materials Chemistry and Physics, 2021, , 125403.	4.0	0
8	Thermodynamic Discussion of CO 2 Injection in Molten Steel. Steel Research International, 2020, 91, 1900450.	1.8	6
9	Three-Dimensional Distributions of Large-Sized Inclusions in the Surface Layer of IF Steel Slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 318-326.	2.1	7
10	Mathematical Modeling of Heat Transfer and Deformation of Bloom Tube Mold in Continuous Casting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 213-221.	2.1	2
11	Investigation of rheological behavior for commercial mold slags. Journal of Materials Research and Technology, 2020, 9, 9568-9575.	5.8	4
12	Effect of Exit Shape of Submerged Entry Nozzle on Flow Field and Slag Entrainment in Continuous Casting Mold. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2862-2870.	2.1	21
13	Contact angle and adhesion of CaO-SiO2- and CaO-Al2O3-based mold slags on solid steel of various compositions. Journal of Materials Research and Technology, 2020, 9, 7828-7837.	5.8	10
14	Effects of Transition Metal Oxides ZrO2, Y2O3, and Sc2O3 on Radiative Heat Transfer of Low-Reactive CaO-Al2O3-Based Mold Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 677-689.	2.1	4
15	Effect of Interfacial Reaction between CaOâ€“BaOâ€“Al₂O₃â€Based Mold Fluxes and Highâ€Mnâ€“Highâ€Al Steels on Fundamental Properties and Lubrication of Mold Flux. Steel Research International, 2020, 91, 1900581.	1.8	7
16	In situ observation of crystallization of mold slag using a digital optical microscope in an infrared furnace. Journal of the American Ceramic Society, 2019, 102, 104-108.	3.8	9
17	Effect of Substituting CaO with BaO and CaO/Al2O3 Ratio on the Viscosity of CaOâ€“BaOâ€“Al2O3â€“CaF2â€“Li2O Mold Flux System. Metals, 2019, 9, 142.	2.3	29
18	The relationship between crystallization and break temperature of mould flux. Ironmaking and Steelmaking, 2019, 46, 865-871.	2.1	14

#	Article	IF	Citations
19	Structure of Solidified Films of CaO-SiO2-Na2O Based Low-Fluorine Mold Flux. Metals, 2019, 9, 93.	2.3	3
20	Effect of substituting Na2O for SiO2 on the non-isothermal crystallization behavior of CaO-BaO-Al2O3 based mold fluxes for casting high Al steels. Ceramics International, 2019, 45, 11296-11303.	4.8	28
21	Molecular Dynamics Simulation of the Structure and Properties of CaO-SiO2-CaF2 Slag Systems. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1503-1513.	2.1	25
22	Mold Nonsinusoidal Oscillation Mode and Its Effect on Slag Infiltration for Lubrication and Initial Shell Growth during Steel Continuous Casting. Metals, 2019, 9, 418.	2.3	9
23	Wetting and Erosion of ZrO2-Graphite Refractory by CaO-SiO2 and CaO-Al2O3-Based Mold Slags for Submerged Entry Nozzle. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1407-1416.	2.1	10
24	Dissolution behaviour of Al2O3 in mould fluxes with low SiO2 content. Ceramics International, 2019, 45, 4035-4042.	4.8	22
25	Study of Non-Newtonian Behavior of CaO-SiO2-Based Mold Slag and Its Effect on Lubrication in Continuous Casting of Steel. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1052-1059.	2.1	12
26	Study of the Mechanism of Liquid Slag Infiltration for Lubrication in Slab Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2038-2049.	2.1	20
27	Study of Mold Oscillation Parameters and Modes on Slag Lubrication in Slab Continuous Casting. Jom, 2018, 70, 2909-2916.	1.9	12
28	Three-Dimensional Distribution of Hooks in Al-Killed Low-Carbon Continuous Casting Steel Slabs. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2533-2549.	2.1	10
29	Influence of Electromagnetic Brake on Hook Growth and Inclusion Entrapment Beneath the Surface of Lowâ€Carbon Continuous Casting Slabs. Steel Research International, 2018, 89, 1800263.	1.8	10
30	Determination for the Entrapment Criterion of Non-metallic Inclusions by the Solidification Front During Steel Centrifugal Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1933-1949.	2.1	15
31	Modeling on Fluid Flow and Inclusion Motion in Centrifugal Continuous Casting Strands. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2623-2642.	2.1	8
32	Wettability between molten slag and dolomitic refractory. Ceramics International, 2016, 42, 16040-16048.	4.8	12
33	Influence of FC-Mold on the Full Solidification of Continuous Casting Slab. Jom, 2016, 68, 2170-2179.	1.9	29
34	Detection of Non-metallic Inclusions in Centrifugal Continuous Casting Steel Billets. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1594-1612.	2.1	18
35	Formation and Modification of MgOÂ·Al2O3-Based Inclusions in Alloy Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 731-750.	2.1	154