

# Qiangqiang Wang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1558323/publications.pdf>

Version: 2024-02-01

35  
papers

542  
citations

840776

11  
h-index

677142

22  
g-index

36  
all docs

36  
docs citations

36  
times ranked

205  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation and Modification of MgO-Al <sub>2</sub> O <sub>3</sub> -Based Inclusions in Alloy Steels. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 731-750.	2.1	154
2	Influence of FC-Mold on the Full Solidification of Continuous Casting Slab. Jom, 2016, 68, 2170-2179.	1.9	29
3	Effect of Substituting CaO with BaO and CaO/Al <sub>2</sub> O <sub>3</sub> Ratio on the Viscosity of CaO-BaO-Al <sub>2</sub> O <sub>3</sub> -CaF <sub>2</sub> -Li <sub>2</sub> O Mold Flux System. Metals, 2019, 9, 142.	2.3	29
4	Effect of substituting Na <sub>2</sub> O for SiO <sub>2</sub> on the non-isothermal crystallization behavior of CaO-BaO-Al <sub>2</sub> O <sub>3</sub> based mold fluxes for casting high Al steels. Ceramics International, 2019, 45, 11296-11303.	4.8	28
5	Molecular Dynamics Simulation of the Structure and Properties of CaO-SiO <sub>2</sub> -CaF <sub>2</sub> Slag Systems. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1503-1513.	2.1	25
6	Dissolution behaviour of Al <sub>2</sub> O <sub>3</sub> in mould fluxes with low SiO <sub>2</sub> content. Ceramics International, 2019, 45, 4035-4042.	4.8	22
7	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
8	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
9	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
10	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
11	The relationship between crystallization and break temperature of mould flux. Ironmaking and Steelmaking, 2019, 46, 865-871.	2.1	14
12	Wettability between molten slag and dolomitic refractory. Ceramics International, 2016, 42, 16040-16048.	4.8	12
13	Study of Mold Oscillation Parameters and Modes on Slag Lubrication in Slab Continuous Casting. Jom, 2018, 70, 2909-2916.	1.9	12
14	Study of Non-Newtonian Behavior of CaO-SiO <sub>2</sub> -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
15	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
16	Influence of Electromagnetic Brake on Hook Growth and Inclusion Entrapment Beneath the Surface of Low-Carbon Continuous Casting Slabs. Steel Research International, 2018, 89, 1800263.	1.8	10
17	Wetting and Erosion of ZrO <sub>2</sub> -Graphite Refractory by CaO-SiO <sub>2</sub> and CaO-Al <sub>2</sub> O <sub>3</sub> -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
18	Contact angle and adhesion of CaO-SiO <sub>2</sub> - and CaO-Al <sub>2</sub> O <sub>3</sub> -based mold slags on solid steel of various compositions. Journal of Materials Research and Technology, 2020, 9, 7828-7837.	5.8	10

#	ARTICLE	IF	CITATIONS
19	In situ observation of crystallization of mold slag using a digital optical microscope in an infrared furnace. <i>Journal of the American Ceramic Society</i> , 2019, 102, 104-108.	3.8	9
20	Mold Nonsinusoidal Oscillation Mode and Its Effect on Slag Infiltration for Lubrication and Initial Shell Growth during Steel Continuous Casting. <i>Metals</i> , 2019, 9, 418.	2.3	9
21	Influence of Submerged Entry Nozzle Clogging on the Flow Field and Slag Entrainment in the Continuous Casting Mold by the Physical Model. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2022, 53, 1436-1445.	2.1	9
22	Modeling on Fluid Flow and Inclusion Motion in Centrifugal Continuous Casting Strands. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2623-2642.	2.1	8
23	Three-Dimensional Distributions of Large-Sized Inclusions in the Surface Layer of IF Steel Slabs. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 318-326.	2.1	7
24	Effect of Interfacial Reaction between CaO-Al <sub>2</sub> O <sub>3</sub> -BaO-Based Mold Fluxes and High-Mn-High-Al Steels on Fundamental Properties and Lubrication of Mold Flux. <i>Steel Research International</i> , 2020, 91, 1900581.	1.8	7
25	Influence of Interfacial Thermal Resistance on Initial Solidification and Heat Transfer in Continuous Casting Mold of Steel. <i>Steel Research International</i> , 2021, 92, 2000636.	1.8	7
26	Thermodynamic Discussion of CO <sub>2</sub> Injection in Molten Steel. <i>Steel Research International</i> , 2020, 91, 1900450.	1.8	6
27	3D Coupled Model on Dynamic Initial Solidification and Slag Infiltration at the Corner of Slab Continuous Casting Mold. <i>Steel Research International</i> , 2021, 92, 2100101.	1.8	5
28	Three-Dimensional Spatial Distribution of Non-metallic Inclusions on the Entire Cross Section of a Steel Continuous Casting Slab. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3497-3514.	2.1	5
29	Investigation of rheological behavior for commercial mold slags. <i>Journal of Materials Research and Technology</i> , 2020, 9, 9568-9575.	5.8	4
30	Effects of Transition Metal Oxides ZrO <sub>2</sub> , Y <sub>2</sub> O <sub>3</sub> , and Sc <sub>2</sub> O <sub>3</sub> on Radiative Heat Transfer of Low-Reactive CaO-Al <sub>2</sub> O <sub>3</sub> -Based Mold Slag. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 677-689.	2.1	4
31	Influence of Al <sub>2</sub> O <sub>3</sub> /O <sub>2</sub> and BaO/Al <sub>2</sub> O <sub>3</sub> /O <sub>2</sub> Ratios on Rheological and Crystallization Behavior of CaO-Al <sub>2</sub> O <sub>3</sub> -Based Mold Slags. <i>ISIJ International</i> , 2022, 62, 1116-1125.	1.4	4
32	Structure of Solidified Films of CaO-SiO <sub>2</sub> -Na <sub>2</sub> O Based Low-Fluorine Mold Flux. <i>Metals</i> , 2019, 9, 93.	2.3	3
33	Mathematical Modeling of Heat Transfer and Deformation of Bloom Tube Mold in Continuous Casting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 213-221.	2.1	2
34	Effect of Dispersant on the Dispersibility of CaO-Al <sub>2</sub> O <sub>3</sub> -Based Mold Powder Slurry. <i>Transactions of the Indian Institute of Metals</i> , 2022, 75, 473-479.	1.5	2
35	Effect of MgO on solidification and crystallization properties of ultrahigh-basicity mold flux. <i>Materials Chemistry and Physics</i> , 2021, , 125403.	4.0	0