

Guanghua Wen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Investigation in CaO-SiO ₂ -CaF ₂ -C slags during the sintering and melting process. Ironmaking and Steelmaking, 2022, 49, 199-207.	2.1	4
2	The role of carbonaceous materials in mold powder and influence on melting behavior. Journal of Thermal Analysis and Calorimetry, 2022, 147, 10965-10975.	3.6	4
3	Thermal conductivity prediction and structure-property relationship of CaO-SiO ₂ -Al ₂ O ₃ ternary system: A combination of molecular dynamics simulations and machine learning. Journal of Molecular Liquids, 2021, 324, 114697.	4.9	9
4	A Novel Method for Evaluating the Combustion Characteristics of Carbon Materials and Mold Fluxes. Steel Research International, 2021, 92, 2000416.	1.8	5
5	Qualitative, Quantitative and Mechanism Research of Volatiles in the Most Commonly Used CaO-SiO ₂ -CaF ₂ -Na ₂ O Slag During Casting Process. Transactions of the Indian Institute of Metals, 2021, 74, 775-782.	1.5	10
6	Strength and Bonding Mechanism of Nonhydraulic Cementitious Binders: Reutilization of MgO in Basic Oxygen Furnace Dust. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1322-1332.	2.1	0
7	A Comprehensive Investigation on the Microstructure and Thermal Conductivity of CaO-Al ₂ O ₃ Based Mold Slags: Equilibrium Molecular Dynamics Simulations. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1574-1581.	2.1	15
8	A combined computational-experimental study on the effect of Na ₂ O on the fluoride volatilization in molten slags. Journal of Molecular Liquids, 2021, 342, 117499.	4.9	7
9	Analysis of Crack Susceptibility of Peritectic Steels Based on Surface Roughness. Steel Research International, 2020, 91, 1900376.	1.8	9
10	Estimating the thermal conductivity of CaO-Al ₂ O ₃ -SiO ₂ slags by equilibrium molecular dynamics simulations. Journal of Non-Crystalline Solids, 2020, 531, 119851.	3.1	20
11	Study on Binder of Cold-Bonded Pellets Containing Basic Oxygen Furnace Dust Based on Hydration Mechanism of Magnesium Potassium Phosphate Cementitious Material. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2400-2412.	2.1	3
12	Effect of Al ₂ O ₃ on non-Newtonian property and its relation to structure of mold fluxes during shear stress field at 1573ÅK. Journal of Non-Crystalline Solids, 2020, 547, 120312.	3.1	7
13	Structure Evolution and Crystallization Behavior of CaO-SiO ₂ -Based Slags with Varying Carbon. Transactions of the Indian Institute of Metals, 2020, 73, 2785-2794.	1.5	2
14	Effects of temperature on the thermal conductivity of amorphous CaO-SiO ₂ -Al ₂ O ₃ slags: a computational insight. Physical Chemistry Chemical Physics, 2020, 22, 8808-8816.	2.8	7
15	Computational Insight into the Thermal Conductivity of CaO-SiO ₂ -Al ₂ O ₃ -MgO-Na ₂ O Melts. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2391-2399.	2.1	6
16	Hydration and Crystallization Behavior of MgO in Cold-Bonded Pellets Containing Basic Oxygen Furnace Dust. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 1016-1026.	2.1	2
17	Influence of Alloy Elements on Cracking in the Steel Ingot during Its Solidification. Metals, 2019, 9, 836.	2.3	10
18	Investigation on Thermal Conductivity and Solidification Process of Molten Slags by Using Copper Finger Dip Test. Transactions of the Indian Institute of Metals, 2019, 72, 3139-3151.	1.5	0

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19	Effect of F ₂ Replacing O ₂ on Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -O ₃ Continuous Casting Mold Flux. ISIJ International, 2019, 59, 367-374.	1.4	11
20	Effect of Bubbles on Crystallization Behavior of CaO-SiO ₂ Based Slags. Metals, 2019, 9, 193.	2.3	6
21	Study of the Effect of Carbon on the Contraction of Hypo-Peritectic Steels during Initial Solidification by Surface Roughness. Metals, 2018, 8, 982.	2.3	7
22	A Novel Approach for Evaluating the Contraction of Hypo-Peritectic Steels during Initial Solidification by Surface Roughness. Materials, 2018, 11, 571.	2.9	14
23	Effect of Shear Stress on Isothermal Crystallization Behavior of CaO-Al ₂ O ₃ -SiO ₂ -Na ₂ O-CaF ₂ Slags. Materials, 2018, 11, 1085.	2.9	10
24	Evolution of Temperature and Solid Slag Film During Solidification of Mold Fluxes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 1292-1307.	2.1	11
25	Study of Ferrite During Refinement of Prior Austenite Grains in Microalloyed Steel Continuous Casting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3074-3082.	2.1	9
26	A Model Estimating the Slab Corner Transverse Cracking Susceptibility of Microalloyed Steel Based on Microstructure. Materials Transactions, 2016, 57, 20-24.	1.2	2
27	Quantification of crystalline fraction of solid slag film using X-ray powder diffraction. Powder Diffraction, 2016, 31, 40-51.	0.2	5
28	Effect of slag-steel reaction on the structure and viscosity of CaO-SiO ₂ -based mold flux during high-Al steel casting. Journal of Non-Crystalline Solids, 2016, 452, 119-124.	3.1	45
29	Effect of Î± Phase Transformation on Refining Austenite Grains of Microalloyed Steel in Continuous Casting by Simulation. High Temperature Materials and Processes, 2016, 35, 653-659.	1.4	3
30	Effect of Al Speciation on the Structure of High-Al Steels Mold Fluxes Containing Fluoride. Journal of the American Ceramic Society, 2016, 99, 3941-3947.	3.8	47
31	Non-Isothermal Crystallization Kinetics of Mold Fluxes Containing Li ₂ O for High Aluminum Steel Casting. Steel Research International, 2016, 87, 880-889.	1.8	15
32	The Influence of Na ₂ O on the Solidification and Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -Based Mold Flux. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1850-1859.	2.1	35
33	Effect of basicity and B ₂ O ₃ on viscosity, melting and crystallization behaviors of low fluorine mold fluxes for casting medium carbon steels. Metals and Materials International, 2015, 21, 126-133.	3.4	45
34	Development and Evaluation of CaO-SiO ₂ Based Mould Fluxes for Casting High Aluminum TRIP Steel. Steel Research International, 2015, 86, 110-120.	1.8	19
35	Periodicity of Carbon Element Distribution Along Casting Direction in Continuous-Casting Billet by Using Singular Spectrum Analysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1817-1826.	2.1	15
36	Effect of Cooling Rates on the Secondary Phase Precipitation and Proeutectoid Phase Transformation of a Nb-Ti Microalloyed Steel Slab. Steel Research International, 2013, 84, 370-376.	1.8	28

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37	Effect of Cooling Rate on the Precipitation Behavior of Carbonitride in Microalloyed Steel Slab. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011, 42, 81-86.	2.1	27
38	Crystallization Behaviors of Mold Fluxes Containing Li_2O Using Single Hot Thermocouple Technique. ISIJ International, 2009, 49, 843-850.	1.4	38
39	The Influence of $\text{Al}_2\text{O}_3/\text{SiO}_2$ Ratio on the Viscosity of Mold Fluxes. ISIJ International, 2008, 48, 739-746.	1.4	83
40	The Transient Stages of Inclusion Evolution During Al and/or Ti Additions to Molten Iron. ISIJ International, 2007, 47, 1265-1274.	1.4	112