

Zhe Wang

List of Publications by Year in descending order

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16
papers

121
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1307594

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citing authors

#	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	Heat transfer properties and molecular mechanisms of cuspidine (Ca ₄ Si ₂ O ₇ F ₂): An atomic-scale molecular dynamics study. Chemical Engineering Science, 2022, 253, 117594.	3.8	0
3	Topological understanding of thermal conductivity in synthetic slag melts for energy recovery: An experimental and molecular dynamic simulation study. Acta Materialia, 2022, 234, 118014.	7.9	9
4	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
5	A Novel Method for Evaluating the Combustion Characteristics of Carbon Materials and Mold Fluxes. Steel Research International, 2021, 92, 2000416.	1.8	5
6	In-Situ Quantitative Study of Heat Transfer Performance of Mold Flux by Using Double Hot Thermocouple Technology. Minerals, Metals and Materials Series, 2021, , 331-337.	0.4	0
7	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
8	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
9	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
10	Comprehensive understanding of the microstructure and volatilization mechanism of fluorine in silicate melt. Chemical Engineering Science, 2021, 243, 116773.	3.8	9
11	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
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	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
14	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
15	Novel Method for Determining the Interfacial Properties of Melt Slags Based on Single Hot Thermocouple Technique. ISIJ International, 2019, 59, 1806-1810.	1.4	1
16	Effect of F ₂ Replacing O ₂ on Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -O ₂ ; Continuous Casting Mold Flux. ISIJ International, 2019, 59, 367-374.	1.4	11