

Zhe Wang

List of Publications by Year in descending order

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papers

121
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1307594

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docs citations

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#	ARTICLE	IF	CITATIONS
1	Estimating the thermal conductivity of CaO-Al ₂ O ₃ -SiO ₂ slags by equilibrium molecular dynamics simulations. <i>Journal of Non-Crystalline Solids</i> , 2020, 531, 119851.	3.1	20
2	A Comprehensive Investigation on the Microstructure and Thermal Conductivity of CaO-Al ₂ O ₃ Based Mold Slags: Equilibrium Molecular Dynamics Simulations. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 1574-1581.	2.1	15
3	Effect of Replacing O ²⁺ on Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -O ₃ Continuous Casting Mold Flux. <i>ISIJ International</i> , 2019, 59, 367-374.	1.4	11
4	Qualitative, Quantitative and Mechanism Research of Volatiles in the Most Commonly Used CaO-SiO ₂ -CaF ₂ -Na ₂ O Slag During Casting Process. <i>Transactions of the Indian Institute of Metals</i> , 2021, 74, 775-782.	1.5	10
5	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. <i>Journal of Molecular Liquids</i> , 2021, 324, 114697.	4.9	9
6	Comprehensive understanding of the microstructure and volatilization mechanism of fluorine in silicate melt. <i>Chemical Engineering Science</i> , 2021, 243, 116773.	3.8	9
7	Topological understanding of thermal conductivity in synthetic slag melts for energy recovery: An experimental and molecular dynamic simulation study. <i>Acta Materialia</i> , 2022, 234, 118014.	7.9	9
8	Effect of Al ₂ O ₃ on non-Newtonian property and its relation to structure of mold fluxes during shear stress field at 1573ÅK. <i>Journal of Non-Crystalline Solids</i> , 2020, 547, 120312.	3.1	7
9	Effects of temperature on the thermal conductivity of amorphous CaO-SiO ₂ -Al ₂ O ₃ slags: a computational insight. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8808-8816.	2.8	7
10	A combined computational-experimental study on the effect of Na ₂ O on the fluoride volatilization in molten slags. <i>Journal of Molecular Liquids</i> , 2021, 342, 117499.	4.9	7
11	Computational Insight into the Thermal Conductivity of CaO-SiO ₂ -Al ₂ O ₃ -MgO-Na ₂ O Melts. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2391-2399.	2.1	6
12	A Novel Method for Evaluating the Combustion Characteristics of Carbon Materials and Mold Fluxes. <i>Steel Research International</i> , 2021, 92, 2000416.	1.8	5
13	Investigation in CaO-SiO ₂ -CaF ₂ -C slags during the sintering and melting process. <i>Ironmaking and Steelmaking</i> , 2022, 49, 199-207.	2.1	4
14	Novel Method for Determining the Interfacial Properties of Melt Slags Based on Single Hot Thermocouple Technique. <i>ISIJ International</i> , 2019, 59, 1806-1810.	1.4	1
15	In-Situ Quantitative Study of Heat Transfer Performance of Mold Flux by Using Double Hot Thermocouple Technology. <i>Minerals, Metals and Materials Series</i> , 2021, , 331-337.	0.4	0
16	Heat transfer properties and molecular mechanisms of cuspidine (Ca ₄ Si ₂ O ₇ F ₂): An atomic-scale molecular dynamics study. <i>Chemical Engineering Science</i> , 2022, 253, 117594.	3.8	0