

Kexin Jiao

List of Publications by Year in descending order

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papers

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citations

687363

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times ranked

211
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfaces Between Coke, Slag, and Metal in the Tuyere Level of a Blast Furnace. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1104-1111.	2.1	30
2	Viscosity measurement and prediction model of molten iron. Ironmaking and Steelmaking, 2018, 45, 773-777.	2.1	30
3	Devolatilization Characteristics and Kinetic Analysis of Lump Coal from China COREX3000 Under High Temperature. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2535-2548.	2.1	26
4	Analysis of the Relationship between Productivity and Hearth Wall Temperature of a Commercial Blast Furnace and Model Prediction. Steel Research International, 2017, 88, 1600475.	1.8	24
5	The influence of basicity and TiO_2 on the crystallization behavior of high Ti-bearing slags. CrystEngComm, 2020, 22, 361-370.	2.6	21
6	A Prediction Model of Blast Furnace Slag Viscosity Based on Principal Component Analysis and K-Nearest Neighbor Regression. Jom, 2020, 72, 3908-3916.	1.9	20
7	Effect of Chlorine on the Viscosities and Structures of CaO-SiO ₂ -CaCl ₂ Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 328-334.	2.1	18
8	Review of viscosity prediction models of liquid pure metals and alloys. Philosophical Magazine, 2019, 99, 853-868.	1.6	18
9	Graphitization Behavior of Coke in the Cohesive Zone. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2956-2962.	2.1	17
10	Erosion of Carbon Brick by Zinc in Hearth of Blast Furnace. ISIJ International, 2020, 60, 226-232.	1.4	17
11	Phase Transformation of Cohesive Zone in a Water-quenched Blast Furnace. ISIJ International, 2018, 58, 1775-1780.	1.4	14
12	Behavior of Alkali Accumulation of Coke in the Cohesive Zone. Energy & Fuels, 2018, 32, 8383-8391.	5.1	14
13	Observation of Deadman Samples in a Dissected Blast Furnace Hearth. ISIJ International, 2019, 59, 1991-1996.	1.4	14
14	Thermodynamic Modelling of Iron Ore Sintering Reactions. Minerals (Basel, Switzerland), 2019, 9, 361.	2.0	14
15	Status, technological progress, and development directions of the ironmaking industry in China. Ironmaking and Steelmaking, 2019, 46, 937-941.	2.1	14
16	Effect of MgO/Al ₂ O ₃ Ratio on Viscosity of Blast Furnace Primary Slag. High Temperature Materials and Processes, 2019, 38, 354-361.	1.4	13
17	Damage mechanism of blast furnace tuyere by zinc. Ironmaking and Steelmaking, 2018, 45, 560-565.	2.1	11
18	Distribution of harmful elements in dissected 125m ³ blast furnace. Canadian Metallurgical Quarterly, 2019, 58, 400-409.	1.2	11

#	ARTICLE	IF	CITATIONS
19	Effects of Pre-Reduction Degree of Ironsand on Slag Properties in Melting Separation Process. Steel Research International, 2018, 89, 1700363.	1.8	10
20	Temperature Field Distribution of a Dissected Blast Furnace. ISIJ International, 2019, 59, 1027-1032.	1.4	10
21	Gaseous Reduction of Titania-ferrous Solution Ore by H ₂ /Ar Mixture. ISIJ International, 2017, 57, 443-452.	1.4	9
22	Graphitization and Performance of Deadman Coke in a Large Dissected Blast Furnace. ACS Omega, 2021, 6, 25430-25439.	3.5	9
23	Melting Features and Viscosity of TiO ₂ -Containing Primary Slag in a Blast Furnace. High Temperature Materials and Processes, 2018, 37, 149-156.	1.4	8
24	Occurrence State and Behavior of Carbon Brick Brittle in a Large Dissected Blast Furnace Hearth. Steel Research International, 2021, 92, 2100273.	1.8	8
25	Insights into Accumulation Behavior of Harmful Elements in Cohesive Zone with Reference to Its Influence on Coke. ISIJ International, 2019, 59, 1796-1800.	1.4	7
26	Investigation of Formation and Shedding Behavior of Slag Crust in a Large Blast Furnace with Copper Slag: Flow Properties and Crystallization Characteristics. Journal of Sustainable Metallurgy, 2021, 7, 506-518.	2.3	7
27	Characterization of Ti(C,N) Superstructure Derived from Hot Metal. ISIJ International, 2021, 61, 138-145.	1.4	7
28	Gasification Characteristics and Kinetics of Coke with Chlorine Addition. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 2428-2439.	2.1	6
29	Phase Composition and Formation Mechanism of Slag Crust in Blast Furnace. ISIJ International, 2020, 60, 2357-2365.	1.4	6
30	Analysis on the stamping coke dissolution of hot metal in the blast furnace hearth. Canadian Metallurgical Quarterly, 2017, 56, 205-211.	1.2	5
31	Formation of Multiple Microstructures During the Reduction of Ironsand. Jom, 2019, 71, 1776-1784.	1.9	5
32	Melting Erosion Failure Mechanism of Tuyere in Blast Furnace. ISIJ International, 2021, 61, 71-78.	1.4	5
33	Comparative Analysis on the Corrosion Resistance to Molten Iron of Four Kinds of Carbon Bricks Used in Blast Furnace Hearth. Metals, 2022, 12, 871.	2.3	5
34	Phase Composition and Properties Distribution of Residual Iron in a Dissected Blast Furnace Hearth. ISIJ International, 2020, 60, 1655-1661.	1.4	4
35	Relationship between interaction under non-load condition and softening & melting behaviour of typical blast furnace feed. Ironmaking and Steelmaking, 2022, 49, 626-633.	2.1	4
36	Study on Carbothermal Reduction of Titania in Molten Iron. High Temperature Materials and Processes, 2019, 38, 143-150.	1.4	3

#	ARTICLE	IF	CITATIONS
37	Model and application of hearth activity in a commercial blast furnace. Ironmaking and Steelmaking, 2021, 48, 742-748.	2.1	2
38	Migration Behavior of K, Na, S, Ti in Hearth of a Commercial Blast Furnace. ISIJ International, 2022, 62, 2236-2243.	1.4	1