An-jun Xu

List of Publications by Year
in descending order

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42 papers	458 citations	759233 12 h-index	794594 19 g-index
42 all docs	42 docs citations	42 times ranked	286 citing authors

#	Article	IF	Citations
1	Effect of FeO on the formation of spinel phases and chromium distribution in the CaO-SiO2-MgO-Al2O3-Cr2O3 system. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 253-258.	4.9	47
2	Hybrid Model of Molten Steel Temperature Prediction Based on Ladle Heat Status and Artificial Neural Network. Journal of Iron and Steel Research International, 2014, 21, 181-190.	2.8	40
3	Carbothermic Reduction of Zinc and Iron Oxides in Electric Arc Furnace Dust. Journal of Iron and Steel Research International, 2014, 21, 427-432.	2.8	34
4	Prediction of Endpoint Phosphorus Content of Molten Steel in BOF Using Weighted K-Means and GMDH Neural Network. Journal of Iron and Steel Research International, 2012, 19, 11-16.	2.8	28
5	End Temperature Prediction of Molten Steel in LF based on CBRâ€“BBN. Steel Research International, 2016, 87, 79-86.	1.8	24
6	Comparison of Energy Consumption and CO2 Emission for Three Steel Production Routesâ€”Integrated Steel Plant Equipped with Blast Furnace, Oxygen Blast Furnace or COREX. Metals, 2019, 9, 364.	2.3	24
7	Simulation-based solution for a dynamic multi-crane-scheduling problem in a steelmaking shop. International Journal of Production Research, 2020, 58, 6970-6984.	7.5	17
8	Closed-circulating CO2 sequestration process evaluation utilizing wastes in steelmaking plant. Science of the Total Environment, 2020, 738, 139747.	8.0	16
9	An Integrated CBR Model for Predicting Endpoint Temperature of Molten Steel in AOD. ISIJ International, 2012, 52, 80-86.	1.4	15
10	Endpoint temperature prediction of molten steel in RH using improved case-based reasoning. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 1148-1154.	4.9	15
11	Development of an improved CBR model for predicting steel temperature in ladle furnace refining. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1321-1331.	4.9	15
12	A Two-step Case-based Reasoning Method Based on Attributes Reduction for Predicting the Endpoint Phosphorus Content. ISIJ International, 2015, 55, 1035-1043.	1.4	14
13	Stainless steel tailings accelerated direct carbonation process at low pressure: Carbonation efficiency evaluation and chromium leaching inhibition correlation analysis. Energy, 2018, 155, 772-781.	8.8	14
14	End temperature prediction of molten steel in RH based on case-based reasoning with optimized case base. Journal of Iron and Steel Research International, 2015, 22, 68-74.	2.8	13
15	Real-Time Dynamic Carbon Content Prediction Model for Second Blowing Stage in BOF Based on CBR and LSTM. Processes, 2021, 9, 1987.	2.8	11
16	Analyses and Calculation of Steel Scrap Melting in a Multifunctional Hot Metal Ladle. Steel Research International, 2019, 90, 1800435.	1.8	10
17	Establishment of Neural Network Prediction Model for Terminative Temperature Based on Grey Theory in Hot Metal Pretreatment. Journal of Iron and Steel Research International, 2012, 19, 25-29.	2.8	9
18	Alkaline extraction characteristics of steelmaking slag batch in NH4Cl solution under environmental pressure. Journal of Central South University, 2013, 20, 1482-1489.	3.0	8

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19	Case-based reasoning model based on attribute weights optimized by genetic algorithm for predicting end temperature of molten steel in RH. Journal of Iron and Steel Research International, 2019, 26, 585-592.	2.8	8
20	Recognition of Plate Identification Numbers Using Convolution Neural Network and Character Distribution Rules. ISIJ International, 2019, 59, 2044-2051.	1.4	8
21	Case-based reasoning method based on mechanistic model correction for predicting endpoint sulphur content of molten iron in KR desulphurization. Ironmaking and Steelmaking, 2020, 47, 799-806.	2.1	8
22	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. Steel Research International, 2021, 92, 2000629.	1.8	8
23	Simulation Study on Steel Plant Capacity and Equipment Efficiency Based on Plant Simulation. Steel Research International, 2019, 90, 1800507.	1.8	7
24	Optimisation of the bottom blowing process for a 200 t converter. Ironmaking and Steelmaking, 2023, 50, 1-12.	2.1	7
25	An Improved CBR Model Based on Mechanistic Model Similarity for Predicting End Phosphorus Content in Dephosphorization Converter. Steel Research International, 2018, 89, 1800063.	1.8	6
26	An Improved CBR Model Using Time-series Data for Predicting the End-point of a Converter. ISIJ International, 2021, 61, 2564-2570.	1.4	6
27	Wear Debris Classification of Steel Production Equipment using Feature Fusion and Case-based Reasoning. ISIJ International, 2018, 58, 1293-1299.	1.4	6
28	Structural Optimization of the Production Process in Steel Plants Based on Flexsim Simulation. Steel Research International, 2019, 90, 1900201.	1.8	5
29	First-principles study on stability, electronic, and mechanical properties of Laâ€“C and Ceâ€“C binary compounds. Journal of Iron and Steel Research International, 2019, 26, 771-778.	2.8	5
30	Briquette smelting in electric arc furnace to recycle wastes from stainless steel production. Journal of Iron and Steel Research International, 2015, 22, 10-16.	2.8	4
31	A study on DAA-based crane scheduling models for steel plant. International Journal of Production Research, 2021, 59, 6241-6251.	7.5	4
32	Mathematical Modeling on the Effect of the Interfacial Tension on the Droplets during Electroslag Remelting. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3167-3182.	2.1	4
33	Calcite Phase Conversion Prediction Model for CaO-Al2O3-SiO2 Slag: An Aqueous Carbonation Process at Ambient Pressure. Jom, 2018, 70, 938-945.	1.9	3
34	Combustion performance of nozzles with multiple gas orifices in large ladles for temperature uniformity. Journal of Iron and Steel Research International, 2018, 25, 387-397.	2.8	3
35	Recovery rates of iron, nickel, and chromium via iron-bath reduction of stainless steel dust briquettes based on corundum crucible erosion balance analysis. Journal of Iron and Steel Research International, 2018, 25, 320-329.	2.8	3
36	Steel scrap melting model for a dephosphorisation basic oxygen furnace. Journal of Iron and Steel Research International, 2020, 27, 972-980.	2.8	3

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37	Carbonation Behavior Assessment of RH Slag Batch after Aqueous Extraction at Environmental Pressure. Journal of Iron and Steel Research International, 2014, 21, 74-81.	2.8	2
38	Mathematical Modeling on the Initial Melting of the Consumable Electrode During Electroslag Remelting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 4033-4045.	2.1	2
39	Influence rule of downtime on heat transfer in converters. Journal of Iron and Steel Research International, 2019, 26, 251-258.	2.8	1
40	Effect of COâ€“CO₂ and H₂â€“H₂O on the reduction degree of fluxed pellets: reduction mechanism within hydrogen-rich blast furnace. Ironmaking and Steelmaking, 2022, 49, 932-939.	2.1	1
41	Output Model of Steel Plant. Journal of Iron and Steel Research International, 2008, 15, 27-30.	2.8	0
42	Editorial for special issue on metallurgical process engineering and intelligent manufacturing. International Journal of Minerals, Metallurgy and Materials, 2021, 28, 1249-1252.	4.9	0