

An-jun Xu

List of Publications by Year in descending order

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42
papers

458
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759233

12
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19
g-index

42
all docs

42
docs citations

42
times ranked

286
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimisation of the bottom blowing process for a 200 t converter. <i>Ironmaking and Steelmaking</i> , 2023, 50, 1-12.	2.1	7
2	Effect of CO ₂ and H ₂ on the reduction degree of fluxed pellets: reduction mechanism within hydrogen-rich blast furnace. <i>Ironmaking and Steelmaking</i> , 2022, 49, 932-939.	2.1	1
3	A study on DAA-based crane scheduling models for steel plant. <i>International Journal of Production Research</i> , 2021, 59, 6241-6251.	7.5	4
4	An Improved CBR Model Using Time-series Data for Predicting the End-point of a Converter. <i>ISIJ International</i> , 2021, 61, 2564-2570.	1.4	6
5	Evolution of Nonmetallic Inclusions during the Electroslag Remelting Process. <i>Steel Research International</i> , 2021, 92, 2000629.	1.8	8
6	Mathematical Modeling on the Effect of the Interfacial Tension on the Droplets during Electroslag Remelting. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3167-3182.	2.1	4
7	Development of an improved CBR model for predicting steel temperature in ladle furnace refining. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1321-1331.	4.9	15
8	Editorial for special issue on metallurgical process engineering and intelligent manufacturing. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2021, 28, 1249-1252.	4.9	0
9	Mathematical Modeling on the Initial Melting of the Consumable Electrode During Electroslag Remelting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 4033-4045.	2.1	2
10	Real-Time Dynamic Carbon Content Prediction Model for Second Blowing Stage in BOF Based on CBR and LSTM. <i>Processes</i> , 2021, 9, 1987.	2.8	11
11	Case-based reasoning method based on mechanistic model correction for predicting endpoint sulphur content of molten iron in KR desulphurization. <i>Ironmaking and Steelmaking</i> , 2020, 47, 799-806.	2.1	8
12	Simulation-based solution for a dynamic multi-crane-scheduling problem in a steelmaking shop. <i>International Journal of Production Research</i> , 2020, 58, 6970-6984.	7.5	17
13	Steel scrap melting model for a dephosphorisation basic oxygen furnace. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 972-980.	2.8	3
14	Closed-circulating CO ₂ sequestration process evaluation utilizing wastes in steelmaking plant. <i>Science of the Total Environment</i> , 2020, 738, 139747.	8.0	16
15	Structural Optimization of the Production Process in Steel Plants Based on Flexsim Simulation. <i>Steel Research International</i> , 2019, 90, 1900201.	1.8	5
16	First-principles study on stability, electronic, and mechanical properties of La-C and Ce-C binary compounds. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 771-778.	2.8	5
17	Comparison of Energy Consumption and CO ₂ Emission for Three Steel Production Routes—Integrated Steel Plant Equipped with Blast Furnace, Oxygen Blast Furnace or COREX. <i>Metals</i> , 2019, 9, 364.	2.3	24
18	Case-based reasoning model based on attribute weights optimized by genetic algorithm for predicting end temperature of molten steel in RH. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 585-592.	2.8	8

#	ARTICLE	IF	CITATIONS
19	Influence rule of downtime on heat transfer in converters. <i>Journal of Iron and Steel Research International</i> , 2019, 26, 251-258.	2.8	1
20	Recognition of Plate Identification Numbers Using Convolution Neural Network and Character Distribution Rules. <i>ISIJ International</i> , 2019, 59, 2044-2051.	1.4	8
21	Analyses and Calculation of Steel Scrap Melting in a Multifunctional Hot Metal Ladle. <i>Steel Research International</i> , 2019, 90, 1800435.	1.8	10
22	Simulation Study on Steel Plant Capacity and Equipment Efficiency Based on Plant Simulation. <i>Steel Research International</i> , 2019, 90, 1800507.	1.8	7
23	Calcite Phase Conversion Prediction Model for CaO-Al ₂ O ₃ -SiO ₂ Slag: An Aqueous Carbonation Process at Ambient Pressure. <i>Jom</i> , 2018, 70, 938-945.	1.9	3
24	An Improved CBR Model Based on Mechanistic Model Similarity for Predicting End Phosphorus Content in Dephosphorization Converter. <i>Steel Research International</i> , 2018, 89, 1800063.	1.8	6
25	Stainless steel tailings accelerated direct carbonation process at low pressure: Carbonation efficiency evaluation and chromium leaching inhibition correlation analysis. <i>Energy</i> , 2018, 155, 772-781.	8.8	14
26	Combustion performance of nozzles with multiple gas orifices in large ladles for temperature uniformity. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 387-397.	2.8	3
27	Recovery rates of iron, nickel, and chromium via iron-bath reduction of stainless steel dust briquettes based on corundum crucible erosion balance analysis. <i>Journal of Iron and Steel Research International</i> , 2018, 25, 320-329.	2.8	3
28	Wear Debris Classification of Steel Production Equipment using Feature Fusion and Case-based Reasoning. <i>ISIJ International</i> , 2018, 58, 1293-1299.	1.4	6
29	End Temperature Prediction of Molten Steel in LF based on CBR-BBN. <i>Steel Research International</i> , 2016, 87, 79-86.	1.8	24
30	End temperature prediction of molten steel in RH based on case-based reasoning with optimized case base. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 68-74.	2.8	13
31	A Two-step Case-based Reasoning Method Based on Attributes Reduction for Predicting the Endpoint Phosphorus Content. <i>ISIJ International</i> , 2015, 55, 1035-1043.	1.4	14
32	Briquette smelting in electric arc furnace to recycle wastes from stainless steel production. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 10-16.	2.8	4
33	Carbonation Behavior Assessment of RH Slag Batch after Aqueous Extraction at Environmental Pressure. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 74-81.	2.8	2
34	Hybrid Model of Molten Steel Temperature Prediction Based on Ladle Heat Status and Artificial Neural Network. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 181-190.	2.8	40
35	Carbothermic Reduction of Zinc and Iron Oxides in Electric Arc Furnace Dust. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 427-432.	2.8	34
36	Effect of FeO on the formation of spinel phases and chromium distribution in the CaO-SiO ₂ -MgO-Al ₂ O ₃ -Cr ₂ O ₃ system. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 253-258.	4.9	47

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37	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
38	Alkaline extraction characteristics of steelmaking slag batch in NH ₄ Cl solution under environmental pressure. Journal of Central South University, 2013, 20, 1482-1489.	3.0	8
39	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
40	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
41	An Integrated CBR Model for Predicting Endpoint Temperature of Molten Steel in AOD. ISIJ International, 2012, 52, 80-86.	1.4	15
42	Output Model of Steel Plant. Journal of Iron and Steel Research International, 2008, 15, 27-30.	2.8	0