

Rong Zhu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3271528/rong-zhu-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

649

citations

15

h-index

21

g-index

91

ext. papers

837

ext. citations

2

avg, IF

4.38

L-index

#	Paper	IF	Citations
86	Experimental Research on Reducing the Dust of BOF in CO ₂ and O ₂ Mixed Blowing Steelmaking Process. <i>ISIJ International</i> , 2009 , 49, 1694-1699	1.7	49
85	Research on Top and Bottom Mixed Blowing CO ₂ in Converter Steelmaking Process. <i>Steel Research International</i> , 2012 , 83, 11-15	1.6	42
84	Research and Analysis on the Physical and Chemical Properties of Molten Bath with Bottom-Blowing in EAF Steelmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016 , 47, 3066-3079	2.5	37
83	Study on the Fluid Flow Characteristics of Coherent Jets with CO ₂ and O ₂ Mixed Injection in Electric Arc Furnace Steelmaking Processes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 1405-1420	2.5	29
82	Technological Innovations of Carbon Dioxide Injection in EAF-LF Steelmaking. <i>Jom</i> , 2018 , 70, 969-976	2.1	27
81	Simulation and Application of Bottom-Blowing in Electrical Arc Furnace Steelmaking Process. <i>ISIJ International</i> , 2015 , 55, 2365-2373	1.7	26
80	Utilization of carbon dioxide injection in BOFBH steelmaking process. <i>Journal of CO₂ Utilization</i> , 2019 , 34, 53-62	7.6	24
79	Study on Experiment and Mechanism of Bottom Blowing CO ₂ During the LF Refining Process. <i>Steel Research International</i> , 2014 , 85, 589-598	1.6	24
78	Influences of Technological Parameters on Smelting-separation Process for Metallized Pellets of Vanadium-bearing Titanomagnetite Concentrates. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 655-660	1.2	23
77	Premixed MILD Combustion of Propane in a Cylindrical Furnace with a Single Jet Burner: Combustion and Emission Characteristics. <i>Energy & Fuels</i> , 2018 , 32, 8817-8829	4.1	21
76	Simulation and Application of Swirl-Type Oxygen Lance in Vanadium Extraction Converter. <i>Steel Research International</i> , 2013 , 84, 304-312	1.6	20
75	A process model for BOF process based on bath mixing degree. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2010 , 17, 715-722	3.1	20
74	Numerical Simulation of Jet Behavior and Impingement Characteristics of Preheating Shrouded Supersonic Jets. <i>Journal of Iron and Steel Research International</i> , 2016 , 23, 997-1006	1.2	20
73	Research on Selective Oxidation of Carbon and Aluminum with Introduction of CO ₂ in RH Refining of Low-Carbon Steel Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 3544-3551	2.5	19
72	High Efficiency Dephosphorization by Mixed Injection during Steelmaking Process. <i>Steel Research International</i> , 2019 , 90, 1800454	1.6	17
71	Utilization of CO ₂ in metallurgical processes in China. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2017 , 126, 47-53		15
70	Study on the Impact Characteristics of Coherent Supersonic Jet and Conventional Supersonic Jet in EAF Steelmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 361-374	2.5	13

69	Effect of Shrouding Gas Parameters on Characteristics of Supersonic Coherent Jet. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017 , 48, 1807-1816	2.5	11
68	Study on the melting characteristics of steel scrap in molten steel. <i>Ironmaking and Steelmaking</i> , 2019 , 46, 609-617	1.3	11
67	Effects of elemental Sn on the properties and inclusions of the free-cutting steel. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015 , 22, 141-148	3.1	11
66	Flow Field Characteristics of Coherent Jet with Preheating Oxygen under Various Ambient Temperatures. <i>ISIJ International</i> , 2016 , 56, 1519-1528	1.7	11
65	Recovery of Fe, Ni, Co, and Cu from Nickel Converter Slag through Oxidation and Reduction. <i>ISIJ International</i> , 2018 , 58, 2191-2199	1.7	11
64	Simulation and Application of Top Lance with Various Tilt Angles in Dephosphorization Ladle Furnace. <i>ISIJ International</i> , 2015 , 55, 1633-1641	1.7	10
63	Influence of bottom-blowing gas species on the nitrogen content in molten steel during the EAF steelmaking process. <i>Ironmaking and Steelmaking</i> , 2018 , 45, 839-846	1.3	9
62	Modeling of an Impinging Oxygen Jet on Molten Bath Surface in 150 t EAF. <i>Journal of Iron and Steel Research International</i> , 2011 , 18, 13-20	1.2	9
61	Effect of Furnace Gas Composition on Characteristics of Supersonic Oxygen Jets in the Converter Steelmaking Process. <i>Materials</i> , 2020 , 13,	3.5	9
60	Study on the Impact Characteristics of Submerged CO ₂ and O ₂ Mixed Injection (S-COMI) in EAF Steelmaking. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 1077-1090	2.5	7
59	A review of carbon dioxide disposal technology in the converter steelmaking process. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 1421-1429	3.1	7
58	Simulation of three-phase flow and lance height effect on the cavity shape. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2014 , 21, 523-530	3.1	7
57	Modelling on the penetration depth of the coherent supersonic jet in EAF steelmaking. <i>Ironmaking and Steelmaking</i> , 2018 , 45, 828-838	1.3	7
56	Reaction between CO ₂ /O ₂ Mixture Gas and Fe ₁₈ O Melts by Isotope Tracing Method. <i>ISIJ International</i> , 2020 , 60, 848-855	1.7	6
55	EAF Gas Waste Heat Utilization and Discussion of the Energy Conservation and CO ₂ Emissions Reduction. <i>High Temperature Materials and Processes</i> , 2016 , 35, 195-200	0.9	6
54	Influence of the Carrier Gas Species on CaO-Gas Mixed Injection in the EAF Steelmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019 , 50, 2389-2402	2.5	6
53	Competitive Oxidation of O ₂ and CO ₂ in Fe ₁₈ O Melts Using Isotope Tracing Method. <i>Steel Research International</i> , 2020 , 91, 2000127	1.6	5
52	Simulation and application of pulsating bottom-blowing in EAF steelmaking. <i>Ironmaking and Steelmaking</i> , 2018 , 45, 847-856	1.3	5

51	Influence of the non-uniform bottom blowing gas supply mode on the dynamic conditions of molten pool during the converter steelmaking process. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 180-190	1.3	5
50	Formation of persistent chlorinated aromatic compounds in simulated and real fly ash from iron ore sintering. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 1437-1445	3.4	4
49	Simplified Calculation Kinetic Model for Solid Metal Melting and Decarburization Process. <i>High Temperature Materials and Processes</i> , 2015 , 34,	0.9	4
48	Effect of oxygen flow rate and temperature on supersonic jet characteristics and fluid flow in an EAF molten bath. <i>Canadian Metallurgical Quarterly</i> , 2018 , 57, 219-234	0.9	4
47	Technological innovations of electric arc furnace bottom-blowing in China. <i>Journal of Iron and Steel Research International</i> , 2019 , 26, 909-916	1.2	4
46	Behaviours of supersonic oxygen jet with various Laval nozzle structures in steelmaking process. <i>Canadian Metallurgical Quarterly</i> , 2019 , 58, 285-298	0.9	3
45	Desulfurization of CaO-Al ₂ O ₃ -SiO ₂ -TiO ₂ Slag System. <i>ISIJ International</i> , 2014 , 54, 2248-2254	1.7	3
44	Effect of Nozzle Exit Wear on the Fluid Flow Characteristics of Supersonic Oxygen Lance. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 187-199	2.5	3
43	Effects of Multiple-Hole Baffle Arrangements on Flow Fields in a Five-Strand Asymmetric Tundish. <i>Materials</i> , 2020 , 13,	3.5	3
42	Multi-index analysis of the melting process of laterite metallized pellet. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2018 , 25, 1423-1430	3.1	3
41	Modeling on impact zone volume generated by coherent supersonic jet and conventional supersonic jet. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 681-691	1.2	3
40	Influence of Carrier Gas of Converter Oxygen Lance on Smooth Distribution of O ₂ -O ₂ -CaO Mixed Jet. <i>Transactions of the Indian Institute of Metals</i> , 2020 , 73, 3027-3035	1.2	2
39	Exploring the Behavior of a Coherent Flow Field Produced by a Shrouding Laval Nozzle Structure. <i>ISIJ International</i> , 2020 , 60, 682-690	1.7	2
38	Experimental Study on Oxidative Desulfurization of Molten Copper Slag by Different Oxidants. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 543-557	2.5	2
37	Effect of methane-hydrogen mixtures on flow and combustion of coherent jets. <i>Journal of Iron and Steel Research International</i> , 2017 , 24, 1143-1151	1.2	2
36	Carbon Powder Mixed Injection with a Shrouding Supersonic Oxygen Jet in Electric Arc Furnace Steelmaking. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020 , 51, 2298-2308	2.5	2
35	Simulation and analysis of O ₂ -CaO jet behavior with different shrouding fuel mediums in electric arc furnace steelmaking. <i>Journal of Iron and Steel Research International</i> , 2020 , 27, 1259-1269	1.2	2
34	Characteristics of the Supersonic Combustion Coherent Jet for Electric Arc Furnace Steelmaking. <i>Materials</i> , 2019 , 12,	3.5	2

33	Effect of various components on the distribution of phosphorus in CaO-FeO-MgO-SiO ₂ -MnO-TiO ₂ -V ₂ O ₅ -P ₂ O ₅ slag based on IMCT. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 570-578	1.3	2
32	Effect of powder injection rate on the flow field of coherent lime powder injection (C-LPI) for EAF steelmaking. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 534-546	1.3	2
31	Effects of Nozzle Layout and Parameters on the Jet Characteristics of a CO ₂ + O ₂ Mixed Oxygen Lance. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 425-439	2.5	2
30	Influence of Preheating Temperature on the Characteristics of O ₂ + CO ₂ Jet by Mixed Injection with a Swirling Oxygen Nozzle. <i>Jom</i> , 2021 , 73, 2985-2994	2.1	2
29	Effect of CO ₂ injection into blast furnace tuyeres on the pulverized coal combustion. <i>High Temperature Materials and Processes</i> , 2021 , 40, 131-140	0.9	2
28	Characteristics of a coherent jet enshrouded in a supersonic fuel gas. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020 , 27, 173-180	3.1	1
27	Numerical simulation and experimental measurement of transport phenomena for coherent jet with CH ₄ + N ₂ mixed fuel gas. <i>Journal of Iron and Steel Research International</i> , 2018 , 25, 28-36	1.2	1
26	Fluid-Solid Coupling Simulation on the Temperature Distribution of Tuyere Used for Oxygen Bottom Blowing Converter. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 3317-3329	2.5	1
25	Numerical Simulation and Industrial Experimental Research on the Coherent Jet with CH ₄ + N ₂ Mixed Fuel Gas. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2584-2598	2.5	1
24	Study on Indirect Measuring Technology of EAF Steelmaking Decarburization Rate by Off-gas Analysis Technique in Hot State Experiment. <i>High Temperature Materials and Processes</i> , 2015 , 34,	0.9	1
23	Simulation and Application of Ruhrstahl-Heraeus (RH) Reactor with Bottom-Blowing. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021 , 52, 2127-2138	2.5	1
22	Study on metallurgical characteristics of the bottom-blown O ₂ -CaO converter. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 142-148	1.3	1
21	Simulation and application of tapping online refining in EAF steelmaking process. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 628-636	1.3	1
20	Simulation and application of submerged CO ₂ /O ₂ injection in EAF steelmaking: combined blowing equipment arrangement and industrial application. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 703-711	1.3	1
19	CO ₂ conversion and decarburization kinetics of CO ₂ gas and liquid Fe-C alloy at 1873 K. <i>Journal of Iron and Steel Research International</i> , 1	1.2	1
18	Research on the Gas-Solid Jet Flow and Erosion Wear Characteristics in Bottom Injecting Lance Used for Oxygen-Lime Powder Bottom Blowing Converter. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	1
17	The Behavior of Supersonic Jets Generated by Combination Gas in the Steelmaking Process. <i>Materials</i> , 2021 , 14,	3.5	1
16	Real-Time Analysis of 18O ₂ -13CO ₂ Mixed Gas Decarburization Mechanism by Online Mass Spectrometry. <i>Jom</i> , 2022 , 74, 869	2.1	0

15	Experimental validation of the reaction mechanism models of dechlorination and [Zn] reclaiming in the roasting steelmaking zinc-rich dust process. <i>High Temperature Materials and Processes</i> , 2020 , 39, 107-116	0.9	○
14	Industrial Application of Bottom Blown CO ₂ in Basic Oxygen Furnace Steelmaking Process. <i>Steel Research International</i> , 2021 , 92, 2000704	1.6	○
13	Effect of smelting temperature and CO ₂ gas flow rate on decarburization kinetics between CO ₂ gas and liquid Fe-C alloy. <i>Ironmaking and Steelmaking</i> , 2021 , 48, 852-859	1.3	○
12	Influence of bottom blowing oxygen on dust emission in converter steelmaking. <i>Journal of Iron and Steel Research International</i> , 2021 , 28, 1105-1113	1.2	○
11	Supersonic jet characteristics of two parameter oxygen lance nozzle. <i>Ironmaking and Steelmaking</i> , 1-13	1.3	○
10	Reaction mechanism of CO/CO ₂ with low-carbon aluminium-killed molten steel during the ladle furnace (LF) refining process. <i>Ironmaking and Steelmaking</i> , 1-13	1.3	○
9	Study on Final Equilibrium State and Process of CO ₂ Reacting with Fe-C Melt. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1	2.5	○
8	Pattern Optimization of O ₂ /CO ₂ Mixed Injection for Decarburization Reactions During Steelmaking Process. <i>Journal of Sustainable Metallurgy</i> , 2022 , 8, 582-594	2.7	○
7	Study on the Characteristics of Coherent Supersonic Jet with Superheated Steam. <i>Metals</i> , 2022 , 12, 835	2.3	○
6	CO ₂ Emission of CO ₂ Injection into Blast Furnace. <i>Transactions of the Indian Institute of Metals</i> , 1	1.2	
5	Formation of persistent chlorinated aromatic compounds in simulated and real fly ash from iron ore sintering. <i>Journal of Material Cycles and Waste Management</i> , 2017 , 19, 1437	3.4	
4	Jet characteristics of CO ₂ /O ₂ mixed injection using a dual-parameter oxygen lance nozzle for different smelting periods. <i>High Temperature Materials and Processes</i> , 2021 , 40, 345-360	0.9	
3	Numerical Simulation for the Mixing Process of Converter with Preheating Oxygen	743-750	
2	Energy balance and deoxidation status of electric arc furnace tapping processes. <i>Ironmaking and Steelmaking</i> , 1-8	1.3	
1	Influence of different central nozzle diameters and powder injection rates on carbon powder mixed injection with shrouding supersonic oxygen jet (CMISSO) lance. <i>Ironmaking and Steelmaking</i> , 1-11	1.3	