

# Shaoyan Hu

## List of Publications by Year in descending order

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23  
papers

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citations

1163117

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1199594

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docs citations

23  
times ranked

69  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Ambient and Oxygen Temperature on Flow Field Characteristics of Coherent Jet. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 228-243.	2.1	29
2	Recovery of Fe, Ni, Co, and Cu from Nickel Converter Slag through Oxidation and Reduction. ISIJ International, 2018, 58, 2191-2199.	1.4	17
3	Evaluation of Slag Entrapment in Continuous Casting Mold Based on the LES-VOF-DPM Coupled Model. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 3246-3264.	2.1	12
4	Flow Field Characteristics of Coherent Jet with Preheating Oxygen under Various Ambient Temperatures. ISIJ International, 2016, 56, 1519-1528.	1.4	12
5	Effect of Nozzle Exit Wear on the Fluid Flow Characteristics of Supersonic Oxygen Lance. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 187-199.	2.1	11
6	Research on the Preparation Parameters and Basic Properties of Premelted Calcium Aluminate Slag Prepared from Secondary Aluminum Dross. Materials, 2021, 14, 5855.	2.9	11
7	Decarburisation behaviour of high-carbon MgO-C refractories in O <sub>2</sub> -CO <sub>2</sub> oxidising atmospheres. Ceramics International, 2018, 44, 20641-20647.	4.8	10
8	Effect of shrouding Mach number and ambient temperature on the flow field of coherent jet with shrouding Laval nozzle structure. Canadian Metallurgical Quarterly, 2019, 58, 96-106.	1.2	10
9	Carbon Powder Mixed Injection with a Shrouding Supersonic Oxygen Jet in Electric Arc Furnace Steelmaking. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 2298-2308.	2.1	10
10	Study on metallurgical characteristics of the bottom-blown O <sub>2</sub> -CaO converter. Ironmaking and Steelmaking, 2021, 48, 142-148.	2.1	8
11	Recycling of Blast Furnace Slag and Fluorite Tailings into Diopside-Based Glass-Ceramics with Various Nucleating Agents™ Addition. Sustainability, 2021, 13, 11144.	3.2	8
12	Fluid-Solid Coupling Simulation on the Temperature Distribution of Tuyere Used for Oxygen Bottom Blowing Converter. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 3317-3329.	2.1	5
13	Numerical Simulation and Industrial Experimental Research on the Coherent Jet with CH <sub>4</sub> +N <sub>2</sub> -Mixed Fuel Gas. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2584-2598.	2.1	5
14	Effect of oxygen flow rate and temperature on supersonic jet characteristics and fluid flow in an EAF molten bath. Canadian Metallurgical Quarterly, 2018, 57, 219-234.	1.2	5
15	Inclusion Removals in a Bottom-Stirring Ladle with Novel Slot-Porous Matched Dual Plugs. Metals, 2022, 12, 162.	2.3	5
16	Exploring the Behavior of a Coherent Flow Field Produced by a Shrouding Laval Nozzle Structure. ISIJ International, 2020, 60, 682-690.	1.4	4
17	Revealing the Softening-Melting Behaviors and Slag Characteristics of Vanadium-Titanium Magnetite Burden with Various MgO Addition. Minerals (Basel, Switzerland), 2022, 12, 842.	2.0	4
18	Simulation and experimental research on top blown burner lance used for chrome ore smelting reduction process. Metallurgical Research and Technology, 2018, 115, 511.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Effect of Electromagnetic Frequency on the Flow Behavior in Mold during Bloom Casting. <i>Metals</i> , 2021, 11, 1828.	2.3	3
20	Study on the Melting Temperature of CaF <sub>2</sub> -CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Slag under the Condition of a Fixed Ratio of Titanium and Aluminum in the Steel during the Electroslag Remelting Process. <i>Materials</i> , 2021, 14, 6047.	2.9	2
21	Research on the Flow Properties and Erosion Characteristics in Combined Blown Converter at Steelmaking Temperature. <i>Minerals, Metals and Materials Series</i> , 2018, , 159-171.	0.4	1
22	Enrichment Characteristics of Cr in Chromium Slag after Pre-Reduction and Melting/Magnetic Separation Treatment. <i>Materials</i> , 2021, 14, 4937.	2.9	1
23	New Process for Resource Utilization of Converter Gas and Simulation on the Combustion of Converter Gas. <i>ISIJ International</i> , 2018, 58, 776-783.	1.4	1