

Feng Chen

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hydrogen Reduction Kinetics of Hematite Concentrate Particles Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1133-1145.	1.0	100
2	Kinetics of Hydrochloric Acid Leaching of Titanium from Titanium-Bearing Electric Furnace Slag. <i>Jom</i> , 2016, 68, 1476-1484.	0.9	73
3	Kinetics of the Reduction of Hematite Concentrate Particles by Carbon Monoxide Relevant to a Novel Flash Ironmaking Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1716-1728.	1.0	72
4	Solid-state reduction kinetics and mechanism of pre-oxidized vanadium-titanium magnetite concentrate. <i>Transactions of Nonferrous Metals Society of China</i> , 2014, 24, 3372-3377.	1.7	56
5	Effects of Basicity and MgO in Slag on the Behaviors of Smelting Vanadium Titanomagnetite in the Direct Reduction-Electric Furnace Process. <i>Metals</i> , 2016, 6, 107.	1.0	45
6	A novel process for preparation of titanium dioxide from Ti-bearing electric furnace slag: NH ₄ HF ₂ -HF leaching and hydrolyzing process. <i>Journal of Hazardous Materials</i> , 2018, 344, 490-498.	6.5	41
7	Reduction Behaviors of Iron, Vanadium and Titanium Oxides in Smelting of Vanadium Titanomagnetite Metallized Pellets. <i>Jom</i> , 2017, 69, 1646-1653.	0.9	37
8	A process for producing synthetic rutile from Panzhihua titanium slag. <i>Hydrometallurgy</i> , 2014, 147-148, 134-141.	1.8	35
9	Preparation of Ti-rich material from titanium slag by activation roasting followed by acid leaching. <i>Transactions of Nonferrous Metals Society of China</i> , 2013, 23, 1174-1178.	1.7	34
10	Behavior of vanadium during reduction and smelting of vanadium titanomagnetite metallized pellets. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1687-1696.	1.7	27
11	Deposit formation mechanisms in a pulverized coal fired grate for hematite pellet production. <i>Fuel Processing Technology</i> , 2017, 161, 33-40.	3.7	25
12	Initial stage of deposit formation process in a coal fired grate-rotary kiln for iron ore pellet production. <i>Fuel Processing Technology</i> , 2018, 175, 54-63.	3.7	25
13	Combustion Reaction of Pulverized Coal on the Deposit Formation in the Kiln for Iron Ore Pellet Production. <i>Energy & Fuels</i> , 2016, 30, 6123-6131.	2.5	23
14	Influence of Ambient and Oxygen Temperatures on Fluid Flow Characteristics Considering Swirl-type Supersonic Oxygen Jets. <i>ISIJ International</i> , 2019, 59, 2272-2282.	0.6	23
15	Reduction roasting-magnetic separation of vanadium tailings in presence of sodium sulfate and its mechanisms. <i>Rare Metals</i> , 2016, 35, 954-960.	3.6	21
16	Characteristics of the reduction behavior of zinc ferrite and ammonia leaching after roasting. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2020, 27, 26-36.	2.4	21
17	Improvement of roasting and metallurgical properties of fluorine-bearing iron concentrate pellets. <i>Powder Technology</i> , 2020, 376, 126-135.	2.1	20
18	Deposits in a coal fired grate-kiln plant for hematite pellet production: Characterization and primary formation mechanisms. <i>Powder Technology</i> , 2018, 333, 122-137.	2.1	18

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19	Appropriate titanium slag composition during smelting of vanadium titanomagnetite metallized pellets. Transactions of Nonferrous Metals Society of China, 2018, 28, 2528-2537.	1.7	18
20	Behavior of Titanium During the Smelting of Vanadium Titanomagnetite Metallized Pellets in an Electric Furnace. Jom, 2019, 71, 323-328.	0.9	15
21	The Deposit Formation Mechanism in Coal-Fired Rotary Kiln for Iron Ore Pellet Production: A Review. Crystals, 2021, 11, 974.	1.0	15
22	Investigation of solidification mechanism of fluorine-bearing magnetite concentrate pellets. Powder Technology, 2018, 332, 188-196.	2.1	13
23	Removal of magnesium and calcium from electric furnace titanium slag by H ₃ PO ₄ oxidation roasting-leaching process. Transactions of Nonferrous Metals Society of China, 2018, 28, 356-366.	1.7	12
24	Melting Behavior of Titanium-Bearing Electric Furnace Slag for Effective Smelting of Vanadium Titanomagnetite. Jom, 2019, 71, 1858-1865.	0.9	11
25	Effects of high pressure roller grinding on size distribution of vanadium-titanium magnetite concentrate particles and improvement of green pellet strength. Journal of Iron and Steel Research International, 2017, 24, 266-272.	1.4	10
26	Behavior of Silicon During Reduction and Smelting of Vanadium Titanomagnetite Metallized Pellets in an Electric Furnace. Jom, 2019, 71, 329-335.	0.9	10
27	Numerical Simulation of Bottom-Blowing Stirring in Different Smelting Stages of Electric Arc Furnace Steelmaking. Metals, 2021, 11, 799.	1.0	10
28	Fluid Flow Characteristic of EAF Molten Steel with Different Bottom-Blowing Gas Flow Rate Distributions. ISIJ International, 2020, 60, 1957-1967.	0.6	9
29	Transformation of Ti-bearing mineral in Panzhihua electric furnace titanium slag during oxidation roasting process. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1767-1776.	2.0	8
30	Phase Transformation and Zinc Extraction from Zinc Ferrite by Calcium Roasting and Ammonia Leaching Process. Crystals, 2022, 12, 641.	1.0	8
31	Present Situation and Prospect of EAF Gas Waste Heat Utilization Technology. High Temperature Materials and Processes, 2018, 37, 357-363.	0.6	7
32	Effects of Borax on the Reduction of Pre-oxidized Panzhihua Ilmenite. Jom, 2018, 70, 23-28.	0.9	7
33	Optimization of Basicity of High Ti Slag for Efficient Smelting of Vanadium Titanomagnetite Metallized Pellets. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2020, 51, 945-952.	1.0	7
34	Selective Enrichment and Separation of Ti-Fe Enriched Mineral from Ti-bearing Electric Furnace Slag with Metallic Iron as Carrier. ISIJ International, 2017, 57, 1767-1773.	0.6	6
35	Development and mechanism analysis of a highly efficient binder in pelletizing of ilmenite used in electric furnace. Journal of Iron and Steel Research International, 2018, 25, 1232-1236.	1.4	5
36	Thermodynamics and phase transformations in the recovery of zinc from willemite. International Journal of Minerals, Metallurgy and Materials, 2018, 25, 1373-1379.	2.4	5

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37	Fluoride Leaching of Titanium from Ti-Bearing Electric Furnace Slag in $[\text{NH}_4^+]\text{-}[\text{F}^-]$ Solution. <i>Metals</i> , 2021, 11, 1176.	1.0	5
38	Effects of Pellet Basicity on the Simulated Deposit Formation in Coal-Fired Rotary Kilns for Iron Ore Pellet Production. <i>ACS Omega</i> , 2022, 7, 4640-4647.	1.6	5
39	Degradation mechanism of high alumina refractory bricks by reaction with deposits in a rotary kiln for fluxed iron ore pellets production. <i>Ceramics International</i> , 2022, 48, 12014-12027.	2.3	5
40	Transformation and separation of metallic iron in reduced ilmenite during corrosion process. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 1372-1381.	1.4	3
41	Reduction Kinetics of Hematite Concentrate Particles by $\text{CO}+\text{H}_2$ Mixture Relevant to a Novel Flash Ironmaking Process. , 2016, , 221-228.		3
42	Determination of Total Iron Content in Iron Ore and DRI: Titrimetric Method Versus ICP-OES Analysis. , 2016, , 125-133.		3
43	Characterization and comparison of deposits in a coal-fired rotary kiln for iron ore fluxed pellets and acidic pellets productions. <i>Powder Technology</i> , 2022, 404, 117454.	2.1	3
44	Effects of Basicity and Al_2O_3 Content on Viscosity and Crystallization Behavior of Super-High-Alumina Slag. <i>Crystals</i> , 2022, 12, 851.	1.0	3
45	Influence of Basicity and Calcium-Containing Substances on the Consolidation Mechanism of Fluxed Iron Ore Pellets. <i>Metals</i> , 2022, 12, 1057.	1.0	3
46	Recent Progress in Electric Furnace Titanium Slag Processing and Utilization: A Review. <i>Crystals</i> , 2022, 12, 958.	1.0	3
47	Improvement of Iron Ore Sintering Productivity by Redistributing Air Volume during Sintering Process. <i>ISIJ International</i> , 2022, 62, 74-82.	0.6	2
48	Kinetics and mineral transformations of panzhihua electric furnace titanium slag during oxidation roasting. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2022, 135, 915-926.	0.8	2
49	The Conversion of Calcium-Containing Phases and Their Separation with NaCl in Molten Salt Chlorinated Slags at High Temperature. <i>Sustainability</i> , 2022, 14, 293.	1.6	2
50	Design and Construction of a Laboratory-Scale Direct-Current Electric Arc Furnace for Metallurgical and High-Titanium Slag Smelting Studies. <i>Metals</i> , 2021, 11, 732.	1.0	1
51	Effects of Specularite on the Preheating and Roasting Characteristics of Fluorine-Bearing Iron Concentrate Pellets. <i>Crystals</i> , 2021, 11, 1319.	1.0	1
52	Solidification Behavior and Microstructure of the Main Phases in a Ni-Fe-Cr Based GH2150A Alloy During Melting and Heat Treatment Process. <i>Jom</i> , 2022, 74, 2402-2408.	0.9	1
53	Selective separation of tin from tin-bearing middling via sulfur roasting. <i>Environmental Technology and Innovation</i> , 2022, 27, 102545.	3.0	1
54	Cold briquetting of coke breeze with damp milling pretreatment as enhancement. <i>International Journal of Coal Preparation and Utilization</i> , 0, , 1-14.	1.2	0

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55	Investigations of the effect of unburnt pulverized coal on the deposit formation mechanism in a rotary kiln for fluxed pellet production. Powder Technology, 2022, 404, 117475.	2.1	0
56	Corrosion electrochemistry of metallic iron in reduced ilmenite with ammonium chloride solution. Metallurgical Research and Technology, 2022, 119, 408.	0.4	0