

Hai-bin Zuo

List of Publications by Year in descending order

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62
papers

1,027
citations

471509

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501196

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all docs

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docs citations

66
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of green and low-carbon ironmaking technology. <i>Ironmaking and Steelmaking</i> , 2020, 47, 296-306.	2.1	93
2	Recent Progress on Long Service Life Design of Chinese Blast Furnace Hearth. <i>ISIJ International</i> , 2012, 52, 1713-1723.	1.4	83
3	Reduction kinetics of iron oxide pellets with H ₂ and CO mixtures. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 688-696.	4.9	82
4	Review of hydrogen-rich ironmaking technology in blast furnace. <i>Ironmaking and Steelmaking</i> , 2021, 48, 749-768.	2.1	54
5	Gasification mechanism and kinetics analysis of coke using distributed activation energy model (DAEM). <i>Applied Thermal Engineering</i> , 2019, 152, 605-614.	6.0	40
6	Recent progress and development of ironmaking in China as of 2019: an overview. <i>Ironmaking and Steelmaking</i> , 2020, 47, 640-649.	2.1	33
7	Effect of CaCl ₂ on RDI and RI of Sinter. <i>Journal of Iron and Steel Research International</i> , 2010, 17, 7-12.	2.8	32
8	Dissolution behavior of a novel Al ₂ O ₃ -SiC-SiO ₂ -C composite refractory in blast furnace slag. <i>Ceramics International</i> , 2017, 43, 7080-7087.	4.8	28
9	A review: research progress of flux pellets and their application in China. <i>Ironmaking and Steelmaking</i> , 2021, 48, 1048-1063.	2.1	28
10	Devolatilization Characteristics and Kinetic Analysis of Lump Coal from China COREX3000 Under High Temperature. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2016, 47, 2535-2548.	2.1	26
11	Isothermal kinetic analysis on fast pyrolysis of lump coal used in COREX process. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 123, 773-783.	3.6	24
12	Mechanisms of swelling of iron ore oxidized pellets in high reduction potential atmosphere. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 1-8.	2.8	23
13	Oxidation behavior and kinetics of Al ₂ O ₃ -SiC-SiO ₂ -C composite in air. <i>Ceramics International</i> , 2015, 41, 9093-9100.	4.8	23
14	Effect of MnO and CaO substitution for BaO on the viscosity and structure of CaO-SiO ₂ -MgO-Al ₂ O ₃ -BaO-MnO slag. <i>Journal of Non-Crystalline Solids</i> , 2021, 567, 120940.	3.1	22
15	Direct reduction of iron ore by biomass char. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 514-521.	4.9	21
16	Comparison of kinetic models for isothermal CO ₂ gasification of coal char-biomass char blended char. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 363-370.	4.9	21
17	One-pot synthesis of MnO/C N-doped hybrid materials for high performance lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019, 805, 692-700.	5.5	19
18	Review on improving gas permeability of blast furnace. <i>Journal of Iron and Steel Research International</i> , 2020, 27, 121-131.	2.8	18

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19	Comprehensive Mathematical Model and Optimum Process Parameters of Nitrogen Free Blast Furnace. <i>Journal of Iron and Steel Research International</i> , 2014, 21, 151-158.	2.8	17
20	Preparation of Graphene-Perfluoroalkoxy Composite and Thermal and Mechanical Properties. <i>Polymers</i> , 2018, 10, 700.	4.5	17
21	Thermogravimetric study on gasification kinetics of hydrolysis char derived from low rank coal. <i>Energy</i> , 2019, 188, 116030.	8.8	17
22	Comparison of oxidation behaviors of novel carbon composite brick with traditional carbon brick. <i>Ceramics International</i> , 2015, 41, 7929-7936.	4.8	16
23	The mechanism of preparation calcium ferrite from desulfurization gypsum produced in sintering. <i>Journal of Cleaner Production</i> , 2020, 267, 122002.	9.3	15
24	Investigation of viscosity and structure of CaO-SiO ₂ -MgO-Al ₂ O ₃ -BaO-B ₂ O ₃ slag melt. <i>Ceramics International</i> , 2022, 48, 17123-17130.	4.8	15
25	Investigation on the structure and viscosity of BaO-bearing slag melt through molecular dynamics simulation, Raman and ²⁷ Al MAS NMR spectra. <i>Journal of Molecular Liquids</i> , 2022, 359, 119342.	4.9	15
26	Co-combustion behavior, kinetic and ash melting characteristics analysis of clean coal and biomass pellet. <i>Fuel</i> , 2022, 324, 124727.	6.4	15
27	The mechanism and products for co-thermal extraction of biomass and low-rank coal with NMP. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2019, 26, 1512-1522.	4.9	14
28	Viscosity and structure evolution of bearing BaO slag melt with the low CaO/SiO ₂ mass ratio of 0.7. <i>Journal of the American Ceramic Society</i> , 2022, 105, 842-852.	3.8	14
29	Improving the Coke Property through Adding HPC Extracted from the Mixture of Low-Rank Coal and Biomass. <i>Energy & Fuels</i> , 2020, 34, 1802-1810.	5.1	13
30	Effects of CO ₂ and N ₂ Dilution on the Combustion Characteristics of H ₂ /CO Mixture in a Turbulent, Partially Premixed Burner. <i>ACS Omega</i> , 2021, 6, 15651-15662.	3.5	13
31	Innovative method for boron extraction from iron ore containing boron. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2016, 23, 247-256.	4.9	10
32	Gasification reactivity and kinetic parameters of coal chars for non-isothermal steam gasification. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1-9.	2.8	10
33	Effect of TiO ₂ on Viscosity and Sulfide Capacity of Blast Furnace Slag Containing Barium. <i>ISIJ International</i> , 2020, 60, 1886-1891.	1.4	10
34	Effects of CO ₂ and N ₂ dilution on the characteristics and NOX emission of H ₂ /CH ₄ /CO/air partially premixed flame. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 15909-15921.	7.1	10
35	Load reduction sintering for increasing productivity and decreasing fuel consumption. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2013, 20, 131-137.	4.9	9
36	Thermal behavior and kinetic study on the pyrolysis of lean coal blends with thermally dissolved coal. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 903-912.	3.6	9

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37	Effect of reduction degree on cohesive zone and permeability of mixed burden. Ironmaking and Steelmaking, 2020, 47, 322-327.	2.1	9
38	Preparation of hot-pressed coal briquette with the extract from direct coal liquefaction residue. Journal of Cleaner Production, 2022, 341, 130836.	9.3	9
39	Damage Mechanism of Copper Staves in a 3200 m ³ Blast Furnace. Metals, 2018, 8, 943.	2.3	7
40	Effect of MnO and Substituting CaO with BaO on the Desulfurization Ability of Blast Furnace Slag. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 2275-2282.	2.1	7
41	Gasification Behavior of Phosphorus during Pre-reduction Sintering of Medium-high Phosphorus Iron Ore. ISIJ International, 2021, 61, 1459-1468.	1.4	7
42	Sulfide Capacity of CaO-SiO ₂ -MgO-Al ₂ O ₃ -BaO-Na ₂ O Slag at 1773 K. Journal of Sustainable Metallurgy, 2021, 7, 1169-1177.	2.3	7
43	CO ₂ Gasification Characteristics of High and Low Reactivity Cokes. Journal of Iron and Steel Research International, 2014, 21, 723-728.	2.8	6
44	Microstructure evolution of coke under CO ₂ and H ₂ O atmospheres. Journal of Iron and Steel Research International, 2020, 27, 743-754.	2.8	6
45	Preparation of petaloid graphite nanoflakes in molten salt for high-performance lithium-ion batteries. Ionics, 2020, 26, 3351-3358.	2.4	6
46	Oxidation behavior and kinetics of Al ₂ O ₃ -SiC-SiO ₂ -C refractories in CO ₂ atmosphere. Ceramics International, 2016, 42, 14765-14773.	4.8	5
47	Coking properties of thermal soluble constituents of coals by N-methyl-2-pyrrolidone solvent. Journal of Iron and Steel Research International, 2018, 25, 378-386.	2.8	5
48	Effect of Al ₂ O ₃ on the Formation of Calcium Ferrite in the Solid State. Metals, 2019, 9, 681.	2.3	5
49	Using HyperCoal to prepare metallurgical coal briquettes via hot-pressing. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 547-554.	4.9	5
50	Evolution and Physical Characteristics of a Raceway Based on a Transient Eulerian Multiphase Flow Model. Processes, 2020, 8, 1315.	2.8	5
51	Energy Conservation for Granular Coal Injection into a Blast Furnace. Jom, 2012, 64, 1002-1010.	1.9	4
52	Research on Reaction Mechanism of Vacuum Carbon Thermal Reduction and Dephosphorization in High Phosphate Iron Ore. Metals, 2018, 8, 1003.	2.3	4
53	Preparation of calcium ferrite by flue gas desulfurization gypsum. Journal of Iron and Steel Research International, 2021, 28, 1357-1365.	2.8	4
54	Effect of quaternary basicity on softening-melting behavior of primary slag based on magnesium flux pellet. Journal of Iron and Steel Research International, 2022, 29, 1185-1193.	2.8	4

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55	Experimental Study of H ₂ and/or N ₂ Addition Effects on CO/CO ₂ -Air Flames using a Combustion Diagnostic System. <i>Journal of Thermal Science</i> , 2021, 30, 1268-1277.	1.9	3
56	Non-isothermal gasification of biomass char and coal char mixture in CO ₂ condition. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2019, , 1-9.	2.3	2
57	Reduction Swelling Mechanism for Different Types of Pellets Based on Continuous Imaging Analysis. <i>Jom</i> , 2022, 74, 2010-2018.	1.9	2
58	Factors Influencing Gas Generation Behaviours of Lump Coal Used in COREX Gasifier. <i>High Temperature Materials and Processes</i> , 2019, 38, 30-41.	1.4	1
59	Characterization of the Hot-Pressed Coal Briquettes Prepared with the HyperCoal. <i>Minerals, Metals and Materials Series</i> , 2020, , 57-67.	0.4	1
60	Extraction and Thermal Dissolution of Low-Rank Coal by N-Methyl-2-Pyrrolidinone. <i>Minerals, Metals and Materials Series</i> , 2018, , 587-597.	0.4	1
61	Softening"Melting Behaviors of a MgO-SiO ₂ -FeO Slag System on a Coke Bed. <i>Jom</i> , 2022, 74, 2019-2028.	1.9	1
62	Mathematical model of burden distribution in bell-less top blast furnace. <i>Journal of Iron and Steel Research International</i> , 0, , .	2.8	0