Hai-bin Zuo

List of Publications by Year
in descending order

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62 papers	1,027 citations	471509 17 h-index	501196 28 g-index
66 all docs	66 docs citations	66 times ranked	526 citing authors

#	Article	IF	Citations
1	Effect of quaternary basicity on softeningâ€“melting behavior of primary slag based on magnesium flux pellet. Journal of Iron and Steel Research International, 2022, 29, 1185-1193.	2.8	4
2	Viscosity and structure evolution of bearingâ€BaO slag melt with the low CaO/SiO₂ mass ratio of 0.7. Journal of the American Ceramic Society, 2022, 105, 842-852.	3.8	14
3	Reduction Swelling Mechanism for Different Types of Pellets Based on Continuous Imaging Analysis. Jom, 2022, 74, 2010-2018.	1.9	2
4	Preparation of hot-pressed coal briquette with the extract from direct coal liquefaction residue. Journal of Cleaner Production, 2022, 341, 130836.	9.3	9
5	Investigation of viscosity and structure of CaO-SiO2-MgO-Al2O3-BaO-B2O3 slag melt. Ceramics International, 2022, 48, 17123-17130.	4.8	15
6	Effects of CO2 and N2 dilution on the characteristics and NOX emission of H2/CH4/CO/air partially premixed flame. International Journal of Hydrogen Energy, 2022, 47, 15909-15921.	7.1	10
7	Softeningâ€“Melting Behaviors of a MgO-SiO2-FeO Slag System on a Coke Bed. Jom, 2022, 74, 2019-2028.	1.9	1
8	Investigation on the structure and viscosity of BaO-bearing slag melt through molecular dynamics simulation, Raman and 27Al MAS NMR spectra. Journal of Molecular Liquids, 2022, 359, 119342.	4.9	15
9	Co-combustion behavior, kinetic and ash melting characteristics analysis of clean coal and biomass pellet. Fuel, 2022, 324, 124727.	6.4	15
10	Gasification reactivity and kinetic parameters of coal chars for non-isothermal steam gasification. Journal of Iron and Steel Research International, 2021, 28, 1-9.	2.8	10
11	Preparation of calcium ferrite by flue gas desulfurization gypsum. Journal of Iron and Steel Research International, 2021, 28, 1357-1365.	2.8	4
12	Review of hydrogen-rich ironmaking technology in blast furnace. Ironmaking and Steelmaking, 2021, 48, 749-768.	2.1	54
13	A review: research progress of flux pellets and their application in China. Ironmaking and Steelmaking, 2021, 48, 1048-1063.	2.1	28
14	Experimental Study of H2 and/or N2 Addition Effects on CO/CO2-Air Flames using a Combustion Diagnostic System. Journal of Thermal Science, 2021, 30, 1268-1277.	1.9	3
15	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
16	Gasification Behavior of Phosphorus during Pre-reduction Sintering of Medium-high Phosphorus Iron Ore. ISIJ International, 2021, 61, 1459-1468.	1.4	7
17	Effects of CO₂ and N₂ Dilution on the Combustion Characteristics of H₂/CO Mixture in a Turbulent, Partially Premixed Burner. ACS Omega, 2021, 6, 15651-15662.	3.5	13
18	Sulfide Capacity of CaOâ€“SiO2â€“MgOâ€“Al2O3â€“BaOâ€“Na2O Slag at 1773ÂK. Journal of Sustainable Metallurgy, 2021, 7, 1169-1177.	2.3	7

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19	Effect of MnO and CaO substitution for BaO on the viscosity and structure of CaO-SiO2-MgO-Al2O3-BaO-MnO slag. Journal of Non-Crystalline Solids, 2021, 567, 120940.	3.1	22
20	Effect of reduction degree on cohesive zone and permeability of mixed burden. Ironmaking and Steelmaking, 2020, 47, 322-327.	2.1	9
21	Review on improving gas permeability of blast furnace. Journal of Iron and Steel Research International, 2020, 27, 121-131.	2.8	18
22	Microstructure evolution of coke under CO2 and H2O atmospheres. Journal of Iron and Steel Research International, 2020, 27, 743-754.	2.8	6
23	Review of green and low-carbon ironmaking technology. Ironmaking and Steelmaking, 2020, 47, 296-306.	2.1	93
24	Improving the Coke Property through Adding HPC Extracted from the Mixture of Low-Rank Coal and Biomass. Energy & Fuels, 2020, 34, 1802-1810.	5.1	13
25	Recent progress and development of ironmaking in China as of 2019: an overview. Ironmaking and Steelmaking, 2020, 47, 640-649.	2.1	33
26	Evolution and Physical Characteristics of a Raceway Based on a Transient Eulerian Multiphase Flow Model. Processes, 2020, 8, 1315.	2.8	5
27	The mechanism of preparation calcium ferrite from desulfurization gypsum produced in sintering. Journal of Cleaner Production, 2020, 267, 122002.	9.3	15
28	Preparation of petaloid graphite nanoflakes in molten salt for high-performance lithium-ion batteries. Ionics, 2020, 26, 3351-3358.	2.4	6
29	Characterization of the Hot-Pressed Coal Briquettes Prepared with the HyperCoal. Minerals, Metals and Materials Series, 2020, , 57-67.	0.4	1
30	Effect of TiO₂ on Viscosity and Sulfide Capacity of Blast Furnace Slag Containing Barium. ISIJ International, 2020, 60, 1886-1891.	1.4	10
31	Factors Influencing Gas Generation Behaviours of Lump Coal Used in COREX Gasifier. High Temperature Materials and Processes, 2019, 38, 30-41.	1.4	1
32	One-pot synthesis of MnO/C N-doped hybrid materials for high performance lithium-ion batteries. Journal of Alloys and Compounds, 2019, 805, 692-700.	5.5	19
33	Non-isothermal gasification of biomass char and coal char mixture in CO2 condition. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2019, , 1-9.	2.3	2
34	Thermogravimetric study on gasification kinetics of hydropyrolysis char derived from low rank coal. Energy, 2019, 188, 116030.	8.8	17
35	Effect of Al2O3 on the Formation of Calcium Ferrite in the Solid State. Metals, 2019, 9, 681.	2.3	5
36	Using HyperCoal to prepare metallurgical coal briquettes via hot-pressing. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 547-554.	4.9	5

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37	Gasification mechanism and kinetics analysis of coke using distributed activation energy model (DAEM). Applied Thermal Engineering, 2019, 152, 605-614.	6.0	40
38	The mechanism and products for co-thermal extraction of biomass and low-rank coal with NMP. International Journal of Minerals, Metallurgy and Materials, 2019, 26, 1512-1522.	4.9	14
39	Thermal behavior and kinetic study on the pyrolysis of lean coal blends with thermally dissolved coal. Journal of Thermal Analysis and Calorimetry, 2019, 136, 903-912.	3.6	9
40	Damage Mechanism of Copper Staves in a 3200 m3 Blast Furnace. Metals, 2018, 8, 943.	2.3	7
41	Research on Reaction Mechanism of Vacuum Carbon Thermal Reduction and Dephosphorization in High Phosphate Iron Ore. Metals, 2018, 8, 1003.	2.3	4
42	Preparation of Graphene-Perfluoroalkoxy Composite and Thermal and Mechanical Properties. Polymers, 2018, 10, 700.	4.5	17
43	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
44	Extraction and Thermal Dissolution of Low-Rank Coal by N-Methyl-2-Pyrrolidinone. Minerals, Metals and Materials Series, 2018, , 587-597.	0.4	1
45	Dissolution behavior of a novel Al 2 O 3 -SiC-SiO 2 -C composite refractory in blast furnace slag. Ceramics International, 2017, 43, 7080-7087.	4.8	28
46	Devolatilization Characteristics and Kinetic Analysis of Lump Coal from China COREX3000 Under High Temperature. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2535-2548.	2.1	26
47	Isothermal kinetic analysis on fast pyrolysis of lump coal used in COREX process. Journal of Thermal Analysis and Calorimetry, 2016, 123, 773-783.	3.6	24
48	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
49	Innovative method for boron extraction from iron ore containing boron. International Journal of Minerals, Metallurgy and Materials, 2016, 23, 247-256.	4.9	10
50	Mechanisms of swelling of iron ore oxidized pellets in high reduction potential atmosphere. Journal of Iron and Steel Research International, 2015, 22, 1-8.	2.8	23
51	Reduction kinetics of iron oxide pellets with H2 and CO mixtures. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 688-696.	4.9	82
52	Oxidation behavior and kinetics of Al2O3â€“SiCâ€“SiO2â€“C composite in air. Ceramics International, 2015, 41, 9093-9100.	4.8	23
53	Comparison of oxidation behaviors of novel carbon composite brick with traditional carbon brick. Ceramics International, 2015, 41, 7929-7936.	4.8	16
54	Comparison of kinetic models for isothermal CO2 gasification of coal char-biomass char blended char. International Journal of Minerals, Metallurgy and Materials, 2015, 22, 363-370.	4.9	21

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55	Comprehensive Mathematical Model and Optimum Process Parameters of Nitrogen Free Blast Furnace. Journal of Iron and Steel Research International, 2014, 21, 151-158.	2.8	17
56	CO2 Gasification Characteristics of High and Low Reactivity Cokes. Journal of Iron and Steel Research International, 2014, 21, 723-728.	2.8	6
57	Direct reduction of iron ore by biomass char. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 514-521.	4.9	21
58	Load reduction sintering for increasing productivity and decreasing fuel consumption. International Journal of Minerals, Metallurgy and Materials, 2013, 20, 131-137.	4.9	9
59	Energy Conservation for Granular Coal Injection into a Blast Furnace. Jom, 2012, 64, 1002-1010.	1.9	4
60	Recent Progress on Long Service Life Design of Chinese Blast Furnace Hearth. ISIJ International, 2012, 52, 1713-1723.	1.4	83
61	Effect of CaCl2 on RDI and RI of Sinter. Journal of Iron and Steel Research International, 2010, 17, 7-12.	2.8	32
62	Mathematical model of burden distribution in bell-less top blast furnace. Journal of Iron and Steel Research International, 0, , .	2.8	0