

Sheng-fu Zhang

List of Publications by Year in descending order

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46
papers

1,031
citations

516710

16
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454955

30
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52
all docs

52
docs citations

52
times ranked

748
citing authors

#	ARTICLE	IF	CITATIONS
1	Green synthesis of ZnO nanoparticles from Syzygium Cumini leaves extract with robust photocatalysis applications. Journal of Molecular Liquids, 2021, 335, 116567.	4.9	127
2	Relationship between structure and viscosity of CaO-SiO ₂ -Al ₂ O ₃ -MgO-TiO ₂ slag. Journal of Non-Crystalline Solids, 2014, 402, 214-222.	3.1	91
3	Thermodynamic and kinetic study of synthesised graphene oxide-CuO nanocomposites: A way forward to fuel additive and photocatalytic potentials. Journal of Molecular Liquids, 2020, 313, 113494.	4.9	81
4	A novel method for removing organic sulfur from high-sulfur coal: Migration of organic sulfur during microwave treatment with NaOH-H ₂ O ₂ . Fuel, 2021, 289, 119800.	6.4	70
5	Strength degradation mechanism of iron coke prepared by mixed coal and Fe ₂ O ₃ . Journal of Analytical and Applied Pyrolysis, 2020, 150, 104897.	5.5	62
6	Cold model of coal gas component concentration distribution in blast furnace raceway. Journal of Iron and Steel Research International, 2009, 16, 1-6.	2.8	55
7	Structure Analysis of CaO-SiO ₂ -Al ₂ O ₃ -TiO ₂ Slag by Molecular Dynamics Simulation and FT-IR Spectroscopy. ISIJ International, 2014, 54, 734-742.	1.4	46
8	Effect of TiO ₂ Content on the Structure of CaO-SiO ₂ -TiO ₂ System by Molecular Dynamics Simulation. ISIJ International, 2013, 53, 1131-1137.	1.4	41
9	Structural transformation of fluid phase extracted from coal matrix during thermoplastic stage of coal pyrolysis. Fuel, 2018, 232, 374-383.	6.4	40
10	Thermal behavior and kinetics of the pyrolysis of the coal used in the COREX process. Journal of Analytical and Applied Pyrolysis, 2013, 104, 660-666.	5.5	39
11	Crystallization Behavior of Perovskite in the Synthesized High-Titanium-Bearing Blast Furnace Slag Using Confocal Scanning Laser Microscope. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 76-85.	2.1	31
12	A Review on Recycling and Reutilization of Blast Furnace Dust as a Secondary Resource. Journal of Sustainable Metallurgy, 2021, 7, 340-357.	2.3	30
13	Thermal behavior and organic functional structure of poplar-fat coal blends during co-pyrolysis. Renewable Energy, 2019, 136, 308-316.	8.9	25
14	Gas-Particle Flow and Combustion Characteristics of Pulverized Coal Injection in Blast Furnace Raceway. Journal of Iron and Steel Research International, 2010, 17, 8-12.	2.8	21
15	Structure characterization and metallurgical properties of the chars formed by devolatilization of lump coals. Fuel Processing Technology, 2015, 129, 174-182.	7.2	20
16	The Temperature Field Digitization of Radiation Images in Blast Furnace Raceway. ISIJ International, 2006, 46, 1410-1415.	1.4	18
17	Density Functional Theory Study on the Carbon-Adhering Reaction on Fe ₃ O ₄ (111) Surface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2288-2295.	2.1	17
18	Effects of iron compounds on pyrolysis behavior of coals and metallurgical properties of resultant cokes. Journal of Iron and Steel Research International, 2017, 24, 1169-1176.	2.8	16

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19	Effects of Additives on Sulfur Transformation, Crystallite Structure and Properties of Coke during Coking Of High-sulfur Coal. <i>Journal of Iron and Steel Research International</i> , 2015, 22, 897-904.	2.8	15
20	Transformation of organic sulfur and its functional groups in nantong and laigang coal under microwave irradiation. <i>Journal of Computational Chemistry</i> , 2019, 40, 2749-2760.	3.3	15
21	Effects of Fe ₂ O ₃ addition on the thermoplasticity and structure of coking coal matrix during thermoplastic stage of pyrolysis. <i>Fuel</i> , 2020, 260, 116305.	6.4	15
22	Relationship between Texture Features and Mineralogy Phases in Iron Ore Sinter Based on Gray-level Co-occurrence Matrix. <i>ISIJ International</i> , 2009, 49, 709-718.	1.4	12
23	Drying kinetics of Philippine nickel laterite by microwave heating. <i>Drying Technology</i> , 2018, 36, 849-858.	3.1	10
24	Initial Reactions at the Electrodes of the FFC-Cambridge Process in Molten CaCl ₂ to Produce Ti. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 3403-3412.	2.1	10
25	Transient Interaction Between Reduction and Slagging Reactions of Wustite in Simulated Cohesive Zone of Blast Furnace. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 2308-2321.	2.1	10
26	Influence of TiO ₂ addition on the structure and metallurgical properties of coke. <i>International Journal of Coal Preparation and Utilization</i> , 2021, 41, 521-537.	2.1	10
27	Effects of poplar addition on tar formation during the co-pyrolysis of fat coal and poplar at high temperature. <i>RSC Advances</i> , 2019, 9, 28053-28060.	3.6	9
28	Phase Transformations and Deoxidation Kinetics during the Electrochemical Reduction of TiO ₂ in Molten CaCl ₂ . <i>Materials Transactions</i> , 2019, 60, 416-421.	1.2	9
29	Prediction of structural and electronic properties of Cl ₂ adsorbed on TiO ₂ (100) surface with C or CO in fluidized chlorination process: A first-principles study. <i>Journal of Central South University</i> , 2021, 28, 29-38.	3.0	9
30	Smelting Vanadium-Titanium Magnetite by COREX Process: Effect of V-Ti Bearing Pellet Ratio on the Softening and Melting Behavior of Mixed Burden. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 4096-4108.	2.1	9
31	Relationship between Mineragraphy Features of Sinter Ore and Its Gray Histogram. <i>ISIJ International</i> , 2008, 48, 186-193.	1.4	8
32	Transformation behaviour of pyrite during microwave desulfurization from coal: Phase and structural change of Fe-S compounds. <i>Fuel</i> , 2022, 316, 123284.	6.4	8
33	A Novel Method for Quantifying the Composition of Mineralogical Phase in Iron Ore Sinter. <i>ISIJ International</i> , 2009, 49, 703-708.	1.4	7
34	Chemical Thermodynamics and Kinetics of Thiophenic Sulfur Removed from Coal by Microwave: A Density Functional Theory Study. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 1379-1392.	2.3	7
35	Preparation of Mo ₂ C by reduction and carbonization of MoO ₂ with CH ₃ OH. <i>Journal of Materials Science</i> , 2018, 53, 10059-10070.	3.7	6
36	Preparation of active coke combining coal with biomass and its denitrification performance. <i>Journal of Iron and Steel Research International</i> , 2021, 28, 1203-1211.	2.8	6

#	ARTICLE	IF	CITATIONS
37	Effect of Microwave Treating the Blast Furnace Slag Bearing Titanium on Thermal Action. ISIJ International, 2007, 47, 1239-1244.	1.4	4
38	Phase-field method for growth of iron whiskers in the presence of CO gas convection. Journal of Iron and Steel Research International, 2019, 26, 829-837.	2.8	4
39	Density Functional Theory Analysis of the Adsorption Behavior of C4 and Cl2 on the TiO2 (110) Surface. Jom, 2020, 72, 3483-3490.	1.9	4
40	Structural Characterization of Four Chinese Bituminous Coals by X-Ray Diffraction, Fourier-Transform Infrared Spectroscopy and X-Ray Photoelectron Spectroscopy. Minerals, Metals and Materials Series, 2019, , 11-22.	0.4	3
41	Prediction of Structural and Electronic Properties of C and Cl ₂ Adsorbed on the Rutile TiO ₂ (110) Surface. ACS Omega, 2020, 5, 29002-29008.	3.5	3
42	Reducing Carbon Contamination by Controlling CO ₂ Formation During Electrochemical Reduction of TiO ₂ . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1061-1070.	2.1	3
43	Effects of annealing temperature and time on decrepitation of lump coals and characteristics of resultant coal chars. Asia-Pacific Journal of Chemical Engineering, 2017, 12, 732-744.	1.5	2
44	Effect of Liquid Addition on Gas-Solid Fluidization. Chemical Engineering and Technology, 2021, 44, 1596-1603.	1.5	2
45	Relationships between Combustion Behavior in Air and the Chemical Structure of Bituminous Coal during Combustion Processes. Energies, 2022, 15, 5154.	3.1	1
46	Effect of additives on coke metallurgical property and sulfide phase. , 2011, , .		0