## Liang-ying Wen

List of Publications by Year in descending order

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LIANG-VING WEN

#	Article	IF	CITATIONS
1	A novel method for removing organic sulfur from high-sulfur coal: Migration of organic sulfur during microwave treatment with NaOH-H2O2. Fuel, 2021, 289, 119800.	6.4	70
2	Strength degradation mechanism of iron coke prepared by mixed coal and Fe2O3. Journal of Analytical and Applied Pyrolysis, 2020, 150, 104897.	5.5	62
3	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
4	Structure Analysis of CaO–SiO2–Al2O3–TiO2 Slag by Molecular Dynamics Simulation and FT-IR Spectroscopy. ISIJ International, 2014, 54, 734-742.	1.4	46
5	Effect of TiO2 Content on the Structure of CaO–SiO2–TiO2 System by Molecular Dynamics Simulation. ISIJ International, 2013, 53, 1131-1137.	1.4	41
6	Structural transformation of fluid phase extracted from coal matrix during thermoplastic stage of coal pyrolysis. Fuel, 2018, 232, 374-383.	6.4	40
7	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
8	The adsorption behaviors of CO and H2 on FeO surface: A density functional theory study. Powder Technology, 2016, 303, 100-108.	4.2	35
9	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
10	Thermal behavior and organic functional structure of poplar-fat coal blends during co-pyrolysis. Renewable Energy, 2019, 136, 308-316.	8.9	25
11	Preparation and characterization of porous titanium using space-holder technique. Rare Metals, 2009, 28, 338-342.	7.1	22
12	The competitive adsorption behavior of CO and H2 molecules on FeO surface in the reduction process. International Journal of Hydrogen Energy, 2019, 44, 6427-6436.	7.1	22
13	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
14	Density Functional Theory Study on the Carbon-Adhering Reaction on Fe3O4(111) Surface. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2288-2295.	2.1	17
15	Microscopic behavior and metallic iron morphology from reduction of iron oxide by CO/H <sub>2</sub> in a fluidized bed. Journal of Applied Crystallography, 2018, 51, 1641-1651.	4.5	17
16	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
17	Effects of Additives on Sulfur Transformation, Crystallite Structure and Properties of Coke during Coking Of High-sulfur Coal. Journal of Iron and Steel Research International, 2015, 22, 897-904.	2.8	15
18	Transformation of organic sulfur and its functional groups in nantong and laigang coal under microwave irradiation. Journal of Computational Chemistry, 2019, 40, 2749-2760.	3.3	15

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19	Effects of Fe2O3 addition on the thermoplasticity and structure of coking coal matrix during thermoplastic stage of pyrolysis. Fuel, 2020, 260, 116305.	6.4	15
20	Carbonization and nitridation of vanadium–bearing titanomagnetite during carbothermal reduction with coal. Journal of Materials Research and Technology, 2020, 9, 4272-4282.	5.8	15
21	The Review of Microwave Applications in Metallurgical Process in China. ISIJ International, 2007, 47, 528-532.	1.4	13
22	Theoretical study on influence of CaO and MgO on the reduction of FeO by CO. Applied Surface Science, 2017, 399, 630-637.	6.1	13
23	Nonisothermal Carbothermal Reduction Kinetics of Titanium-Bearing Blast Furnace Slag. Jom, 2018, 70, 1443-1448.	1.9	13
24	Synthesis of TiC nanotube arrays and their excellent supercapacitor performance. Journal of Materials Chemistry A, 2022, 10, 9932-9940.	10.3	13
25	Radiant Image Simulation of Pulverized Coal Combustion in Blast Furnace Raceway. Journal of Iron and Steel Research International, 2006, 13, 18-21.	2.8	11
26	Numerical simulation of iron whisker growth with changing oxygen content in iron oxide using phase-field method. Computational Materials Science, 2016, 125, 263-270.	3.0	10
27	Interaction mechanism between coal combustion products and coke in raceway of blast furnaces. Journal of Iron and Steel Research International, 2017, 24, 8-17.	2.8	10
28	Transient Interaction Between Reduction and Slagging Reactions of Wustite in Simulated Cohesive Zone of Blast Furnace. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2018, 49, 2308-2321.	2.1	10
29	Influence of TiO <sub>2</sub> addition on the structure and metallurgical properties of coke. International Journal of Coal Preparation and Utilization, 2021, 41, 521-537.	2.1	10
30	Effects of poplar addition on tar formation during the co-pyrolysis of fat coal and poplar at high temperature. RSC Advances, 2019, 9, 28053-28060.	3.6	9
31	Phase Transformations and Deoxidation Kinetics during the Electrochemical Reduction of TiO <sub>2</sub> in Molten CaCl <sub>2</sub> . Materials Transactions, 2019, 60, 416-421.	1.2	9
32	Prediction of structural and electronic properties of Cl2 adsorbed on TiO2(100) surface with C or CO in fluidized chlorination process: A first-principles study. Journal of Central South University, 2021, 28, 29-38.	3.0	9
33	Smelting Vanadium–Titanium Magnetite by COREX Process: Effect of V–Ti Bearing Pellet Ratio on the Softening and Melting Behavior of Mixed Burden. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 4096-4108.	2.1	9
34	CuO–ZnO anchored on APS modified activated carbon as an enhanced catalyst for methanol synthesis—The role of ZnO. Journal of Materials Research, 2018, 33, 1625-1631.	2.6	8
35	Carbon formation on the surface during the reduction of iron oxide particles by CO and CO/H2 mixtures. Chemical Engineering Science, 2019, 205, 238-247.	3.8	8
36	Chemical Thermodynamics and Kinetics of Thiophenic Sulfur Removed from Coal by Microwave: A Density Functional Theory Study. Journal of Sustainable Metallurgy, 2021, 7, 1379-1392.	2.3	7

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#	Article	IF	CITATIONS
37	Preparation of active coke combining coal with biomass and its denitrification performance. Journal of Iron and Steel Research International, 2021, 28, 1203-1211.	2.8	6
38	First-principle study of interfacial properties between Î <sup>3</sup> -TiAl and TiC, VN. Molecular Simulation, 2019, 45, 50-57.	2.0	5
39	Effect of Microwave Treating the Blast Furnace Slag Bearing Titanium on Thermal Action. ISIJ International, 2007, 47, 1239-1244.	1.4	4
40	The adhesion, stability, and electronic structure of γ-TiAl/VN interface: a first-principle study. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	4
41	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
42	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
43	Prediction of Structural and Electronic Properties of C and Cl <sub>2</sub> Adsorbed on the Rutile TiO <sub>2</sub> (110) Surface. ACS Omega, 2020, 5, 29002-29008.	3.5	3
44	Reducing Carbon Contamination by Controlling CO32â^ Formation During Electrochemical Reduction of TiO2. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2021, 52, 1061-1070.	2.1	3
45	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
46	Effects of Calcium Peroxide on Desulfurization and Combustion Efficiency during Coal Combustion. Journal of Energy Engineering - ASCE, 2017, 143, 04016042.	1.9	2
47	Effect of titanium additives on carbon anode reactivity. Russian Journal of Non-Ferrous Metals, 2017, 58, 218-224.	0.6	2
48	Effect of Liquid Addition on Gasâ€Solid Fluidization. Chemical Engineering and Technology, 2021, 44, 1596-1603.	1.5	2
49	Effect of additives on coke metallurgical property and sulfide phase. , 2011, , .		0