

Yongqi Sun

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,431
citations

279701

23
h-index

345118

36
g-index

65
all docs

65
docs citations

65
times ranked

790
citing authors

#	ARTICLE	IF	CITATIONS
1	Decarbonising the iron and steel sector for a 2°C target using inherent waste streams. <i>Nature Communications</i> , 2022, 13, 297.	5.8	26
2	Structural Characterization of the Fe-SiO ₂ Slags Using Raman Spectra. <i>Minerals, Metals and Materials Series</i> , 2021, , 181-189.	0.3	0
3	Modification of Phosphorous Enrichment Behaviours in Steelmaking Slags Based on Phase Transformations. <i>Jom</i> , 2021, 73, 1845-1852.	0.9	2
4	Structural and Viscous Insight into Impact of MoO ₃ on Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2021, 52, 3730-3743.	1.0	11
5	Phase Equilibrium Studies of Iron Silicate Slag Under Direct to Blister Copper-Making Condition. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 1-5.	1.0	13
6	Effect of MgO on the liquid/spinel/matte/gas equilibria in the Si-Fe-Mg-O-Cu-S system at controlled P(SO ₂) 0.3 and 0.6 atm. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 70, 101803.	0.7	7
7	Evolution of trace elements and polluting gases toward clean co-combustion of coal and sewage sludge. <i>Fuel</i> , 2020, 280, 118685.	3.4	25
8	Phase Equilibrium Studies of Iron Silicate Slag in the Liquid/Spinel/White Metal/Gas System for Copper Converting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 426-432.	1.0	9
9	Effect of CaO on the liquid/spinel/matte/gas equilibria in the Si-Fe-O-Cu-S system at controlled P(SO ₂) 0.3 and 0.6 atm. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2020, 69, 101751.	0.7	9
10	Phase Equilibria of Ferrous-Calcium Silicate Slags in the Liquid/Spinel/White Metal/Gas System for the Copper Converting Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2012-2020.	1.0	4
11	Equilibria of Iron Silicate Slags for Continuous Converting Copper-Making Process Based on Phase Transformations. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 2039-2045.	1.0	7
12	Development of Ferrous-Calcium Silicate Slag for the Direct to Blister Copper-Making Process and the Equilibria Investigation. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2020, 51, 973-984.	1.0	5
13	Insight into the Relationship Between Viscosity and Structure of CaO-SiO ₂ -MgO-Al ₂ O ₃ Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2019, 50, 2930-2941.	1.0	57
14	Experimental studies of liquid/spinel/matte/gas equilibria in the Si-Fe-O-Cu-S system at controlled P(SO ₂) 0.3 and 0.6 atm. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2019, 66, 101642.	0.7	21
15	Modification of the microstructures of CaO-SiO ₂ -Al ₂ O ₃ -MgO slags using various minor elements. <i>Journal of Non-Crystalline Solids</i> , 2019, 515, 50-57.	1.5	10
16	In Situ Study on the Transformation Behavior of Ti-Bearing Slags in the Oxidation Atmosphere. <i>Minerals, Metals and Materials Series</i> , 2019, , 51-59.	0.3	0
17	Biomass gasification using the waste heat from high temperature slags in a mixture of CO ₂ and H ₂ O. <i>Energy</i> , 2019, 167, 688-697.	4.5	28
18	General roles of sludge ash, CaO and Al ₂ O ₃ on the sludge pyrolysis toward clean utilizations. <i>Applied Energy</i> , 2019, 233-234, 412-423.	5.1	29

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19	Integrating biomass pyrolysis with waste heat recovery from hot slags via extending the C-loops: Product yields and roles of slags. <i>Energy</i> , 2018, 149, 792-803.	4.5	23
20	Distributional and compositional insight into the polluting materials during sludge combustion: Roles of ash. <i>Fuel</i> , 2018, 220, 318-329.	3.4	10
21	Understanding the Relationship Between Structure and Thermophysical Properties of CaO-SiO ₂ -MgO-Al ₂ O ₃ Molten Slags. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018, 49, 677-687.	1.0	51
22	Utilization of High-Temperature Slags From Metallurgy Based on Crystallization Behaviors. <i>Jom</i> , 2018, 70, 1274-1281.	0.9	6
23	Integrated utilization of fly ash and waste glass for synthesis of foam/dense bi-layered insulation ceramic tile. <i>Energy and Buildings</i> , 2018, 168, 67-75.	3.1	32
24	Roles of P ₂ O ₅ ; Addition on the Viscosity and Structure of CaO-SiO ₂ -Al ₂ O ₃ -Na ₂ O Molten Slags. <i>ISIJ International</i> , 2018, 58, 1644-1649.		
25	Cellular and compositional insight into the sludge dewatering process using enzyme treatment. <i>Environmental Science and Pollution Research</i> , 2018, 25, 28942-28953.	2.7	11
26	Environmental mitigation of sludge combustion via two opposite modifying strategies: Kinetics and stabilization effect. <i>Fuel</i> , 2018, 227, 346-354.	3.4	13
27	Solid wastes utilization in the iron and steel industry in China: towards sustainability. <i>Institutions of Mining and Metallurgy Transactions Section C: Mineral Processing and Extractive Metallurgy</i> , 2017, 126, 41-46.	0.6	8
28	Synthesis of a ceramic tile base based on high-alumina fly ash. <i>Construction and Building Materials</i> , 2017, 155, 930-938.	3.2	42
29	Investigation on Viscosity and Nonisothermal Crystallization Behavior of P-Bearing Steelmaking Slags with Varying TiO ₂ Content. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2017, 48, 527-537.	1.0	28
30	Energy Saving and Emission Reduction from the Steel Industry: Heat Recovery from High Temperature Slags. <i>Lecture Notes in Energy</i> , 2017, , 249-280.	0.2	1
31	Role of steel slags on biomass/carbon dioxide gasification integrated with recovery of high temperature heat. <i>Bioresource Technology</i> , 2017, 223, 1-9.	4.8	21
32	Short-range and Medium-range Structural Order in CaO-SiO ₂ -TiO ₂ -B ₂ O ₃ Glasses. <i>ISIJ International</i> , 2016, 56, 752-758.		
33	Viscous Flow and Crystallization Behaviors of P-bearing Steelmaking Slags with Varying Fluorine Content. <i>ISIJ International</i> , 2016, 56, 546-553.	0.6	12
34	Integrated biomass gasification using the waste heat from hot slags: Control of syngas and polluting gas releases. <i>Energy</i> , 2016, 114, 165-176.	4.5	17
35	A Fe-C-Ca big cycle in modern carbon-intensive industries: toward emission reduction and resource utilization. <i>Scientific Reports</i> , 2016, 6, 22323.	1.6	6
36	The partitioning behavior of trace element and its distribution in the surrounding soil of a cement plant integrated utilization of hazardous wastes. <i>Environmental Science and Pollution Research</i> , 2016, 23, 13943-13953.	2.7	7

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37	Integration of biomass/steam gasification with heat recovery from hot slags: Thermodynamic characteristics. International Journal of Hydrogen Energy, 2016, 41, 5916-5926.	3.8	24
38	Modification of the Structure of Ti-Bearing Mold Flux by the Simultaneous Addition of B ₂ O ₃ and Na ₂ O. Metallurgical and Materials Transactions E, 2016, 3, 28-36.	0.5	4
39	Disposal of High-Temperature Slags: A Review of Integration of Heat Recovery and Material Recycling. Metallurgical and Materials Transactions E, 2016, 3, 114-122.	0.5	3
40	Effect of Al ₂ O ₃ Addition on the Precipitated Phase Transformation in Ti-Bearing Blast Furnace Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 1390-1399.	1.0	21
41	Heat Recovery from High Temperature Slags: Chemical Methods. , 2016, , 41-48.		2
42	Viscous and Crystallization Characteristics of CaO-SiO ₂ -MgO-Al ₂ O ₃ -FeO-P ₂ O ₅ -(CaF ₂) Steelmaking Slags. , 2016, , 495-500.		0
43	Integration of coal gasification and waste heat recovery from high temperature steel slags: an emerging strategy to emission reduction. Scientific Reports, 2015, 5, 16591.	1.6	19
44	Co-modification and Crystalline-control of Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 158-165.	0.6	25
45	Enhancement of Rutile Formation by ZrO ₂ Addition in Ti-bearing Blast Furnace Slags. ISIJ International, 2015, 55, 1384-1389.	0.6	7
46	Integrated carbon dioxide/sludge gasification using waste heat from hot slags: Syngas production and sulfur dioxide fixation. Bioresource Technology, 2015, 181, 174-182.	4.8	53
47	Effect of Al ₂ O ₃ on the Viscosity and Structure of CaO-SiO ₂ -MgO-Al ₂ O ₃ -FeO Slags. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 537-541.	1.0	65
48	Selective Crystallization Behavior of CaO-SiO ₂ -Al ₂ O ₃ -MgO-FeO-P ₂ O ₅ Steelmaking Slags Modified through P ₂ O ₅ and Al ₂ O ₃ . Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 2246-2254.	1.0	33
49	Achieving waste to energy through sewage sludge gasification using hot slags: syngas production. Scientific Reports, 2015, 5, 11436.	1.6	27
50	Heat Recovery from High Temperature Slags: A Review of Chemical Methods. Energies, 2015, 8, 1917-1935.	1.6	83
51	FTIR, Raman and NMR investigation of CaO-SiO ₂ -P ₂ O ₅ and CaO-SiO ₂ -TiO ₂ -P ₂ O ₅ glasses. Journal of Non-Crystalline Solids, 2015, 420, 26-33.	1.5	102
52	Structural Roles of Boron and Silicon in the CaO-SiO ₂ -B ₂ O ₃ Glasses Using FTIR, Raman, and NMR Spectroscopy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 1549-1554.	1.0	62
53	Two-stage high temperature sludge gasification using the waste heat from hot blast furnace slags. Bioresource Technology, 2015, 198, 364-371.	4.8	45
54	Effect of P ₂ O ₅ Addition on the Viscosity and Structure of Titanium Bearing Blast Furnace Slags. ISIJ International, 2014, 54, 1491-1497.	0.6	23

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55	Effect of B ₂ O ₃ on the Structure and Viscous Behavior of Ti-Bearing Blast Furnace Slags. <i>Jom</i> , 2014, 66, 2168-2175.	0.9	55
56	Multi-Stage Control of Waste Heat Recovery from High Temperature Slags Based on Time Temperature Transformation Curves. <i>Energies</i> , 2014, 7, 1673-1684.	1.6	42
57	Characteristics of low temperature biomass gasification and syngas release behavior using hot slag. <i>RSC Advances</i> , 2014, 4, 62105-62114.	1.7	36
58	Experimental investigation and modeling of cooling processes of high temperature slags. <i>Energy</i> , 2014, 76, 761-767.	4.5	61
59	The Effect of P ₂ O ₅ on the Crystallization Behaviors of Ti-Bearing Blast Furnace Slags Using Single Hot Thermocouple Technique. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 1446-1455.	1.0	40
60	Oxidation kinetics of magnesium aluminum oxynitride–boron nitride (MgAlON–BN) composites. <i>Journal of the Ceramic Society of Japan</i> , 2014, 122, 829-834.	0.5	0