

Shan Ren

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,122
citations

331670

21
h-index

434195

31
g-index

51
all docs

51
docs citations

51
times ranked

573
citing authors

#	ARTICLE	IF	CITATIONS
1	Promotional effects of nitrogen doping on catalytic performance over manganese-containing semi-coke catalysts for the NH ₃ -SCR at low temperatures. <i>Journal of Hazardous Materials</i> , 2020, 387, 121704.	12.4	65
2	Role of cerium in improving NO reduction with NH ₃ over Mn-Ce/ASC catalyst in low-temperature flue gas. <i>Chemical Engineering Research and Design</i> , 2018, 133, 1-10.	5.6	63
3	Influence of B ₂ O ₃ on Viscosity of High Ti-bearing Blast Furnace Slag. <i>ISIJ International</i> , 2012, 52, 984-991.	1.4	61
4	Effect of Al ₂ O ₃ , MgO, and CaO/SiO ₂ on Viscosity of High Alumina Blast Furnace Slag. <i>Steel Research International</i> , 2016, 87, 241-249.	1.8	55
5	Poisoning effects of KCl and As ₂ O ₃ on selective catalytic reduction of NO with NH ₃ over Mn-Ce/AC catalysts at low temperature. <i>Chemical Engineering Journal</i> , 2018, 351, 540-547.	12.7	55
6	Selection of carbon materials and modification methods in low-temperature sintering flue gas denitrification. <i>Chemical Engineering Research and Design</i> , 2017, 126, 278-285.	5.6	50
7	Low-temperature SCR of NO with NH ₃ over biomass char supported highly dispersed Mn-Ce mixed oxides. <i>Journal of the Energy Institute</i> , 2019, 92, 883-891.	5.3	48
8	Promotional effect of Ce on the SCR of NO with NH ₃ at low temperature over MnO _x supported by nitric acid-modified activated carbon. <i>Research on Chemical Intermediates</i> , 2018, 44, 1729-1744.	2.7	43
9	Experiment and expectation: Co-combustion behavior of anthracite and biomass char. <i>Bioresource Technology</i> , 2019, 280, 412-420.	9.6	43
10	Time-resolved <i>in situ</i> DRIFTS study on NH ₃ -SCR of NO on a CeO ₂ /TiO ₂ catalyst. <i>Catalysis Science and Technology</i> , 2022, 12, 1245-1256.	4.1	43
11	Insight into N ₂ O Formation Over Different Crystal Phases of MnO ₂ During Low-Temperature NH ₃ -SCR of NO. <i>Catalysis Letters</i> , 2021, 151, 2964-2971.	2.6	38
12	Precipitation behavior of perovskite and anosovite crystals from high Ti-bearing blast furnace slag with small amount of B ₂ O ₃ . <i>CrystEngComm</i> , 2016, 18, 1393-1402.	2.6	33
13	Nb ₂ O ₅ -modified Mn-Ce/AC catalyst with high ZnCl ₂ and SO ₂ tolerance for low-temperature NH ₃ -SCR of NO. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106323.	6.7	33
14	Heterojunction interface of zinc oxide and zinc sulfide promoting reactive molecules activation and carrier separation toward efficient photocatalysis. <i>Journal of Colloid and Interface Science</i> , 2021, 588, 826-837.	9.4	32
15	Low-temperature flue gas denitration with transition metal oxides supported on biomass char. <i>Journal of the Energy Institute</i> , 2019, 92, 1158-1166.	5.3	30
16	Zinc Accumulation and Behavior in Tuyere Coke. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014, 45, 1581-1588.	2.1	28
17	NH ₃ treatment of CeO ₂ nanorods catalyst for improving NH ₃ -SCR of NO. <i>Journal of the Energy Institute</i> , 2021, 98, 199-205.	5.3	25
18	Different lead species deactivation on Mn-Ce activated carbon supported catalyst for low-temperature SCR of NO with NH ₃ : Comparison of PbCl ₂ , Pb(NO ₃) ₂ and PbSO ₄ . <i>Journal of Colloid and Interface Science</i> , 2022, 622, 549-561.	9.4	25

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19	Effect of pyrolysis temperature on pine sawdust chars and their gasification reactivity mechanism with CO ₂ . Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2256.	1.5	24
20	Effects of PbO poisoning on Ce-Mn/AC catalyst for low-temperature selective catalytic reduction of NO with NH ₃ . Journal of Iron and Steel Research International, 2021, 28, 133-139.	2.8	24
21	Effect of Nozzle Blockage on Circulation Flow Rate in Up-Snorkel during the RH Degasser Process. Steel Research International, 2016, 87, 136-145.	1.8	23
22	Physicochemical properties of pine-derived bio-chars modified by metal oxides and their performance in the removal of NO. Journal of the Energy Institute, 2018, 91, 467-472.	5.3	19
23	New insights into the deactivation mechanism of V ₂ O ₅ -WO ₃ /TiO ₂ catalyst during selective catalytic reduction of NO with NH ₃ : synergies between arsenic and potassium species. RSC Advances, 2019, 9, 37724-37732.	3.6	19
24	Poisoning Effect Comparison of ZnCl ₂ and ZnSO ₄ on Mn-Ce/AC Catalyst for Low-Temperature SCR of NO. ChemistrySelect, 2020, 5, 9226-9234.	1.5	19
25	Atomic-Scale Understanding about Coke Carbon Structural Evolution by Experimental Characterization and ReaxFF Molecular Dynamics. Energy & Fuels, 2019, 33, 10941-10952.	5.1	18
26	Revealing M (M = Cu, Co and Zr) oxides doping effects on anti-PbCl ₂ poisoning over Mn-Ce/AC catalysts in low-temperature NH ₃ -SCR reaction. Applied Catalysis A: General, 2022, 643, 118749.	4.3	18
27	Combustion Characteristics and Kinetics of Anthracite Blending with Pine Sawdust. Journal of Iron and Steel Research International, 2015, 22, 812-817.	2.8	17
28	Isothermal Carbothermal Reduction of FeTiO ₃ Doped with MgO. Jom, 2021, 73, 1328.	1.9	17
29	Sintering flue gas desulfurization with different carbon materials modified by microwave irradiation. Journal of Iron and Steel Research International, 2017, 24, 979-984.	2.8	15
30	Comparative Studies of Effects of Vapor- and Liquid-Phase As ₂ O ₃ on Catalytic Behaviors of V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts for NH ₃ -SCR. ACS Omega, 2020, 5, 24195-24203.	3.5	15
31	Kinetic analysis and modeling of maize straw hydrochar combustion using a multi-Gaussian-distributed activation energy model. International Journal of Minerals, Metallurgy and Materials, 2022, 29, 464-472.	4.9	15
32	Effect of MgO and K ₂ O on High-Al Silicon-Manganese Alloy Slag Viscosity and Structure. Minerals (Basel, Switzerland), 2020, 10, 810.	2.0	12
33	Deactivation Effect of CaO on Mn-Ce/AC Catalyst for SCR of NO with NH ₃ at Low Temperature. Catalysts, 2020, 10, 873.	3.5	11
34	Experimental Study on Strengthening Carbothermic Reduction of Vanadium-Titanium-Magnetite by Adding CaF ₂ . Minerals (Basel, Switzerland), 2020, 10, 219.	2.0	11
35	Thermal Behavior and Kinetics of Raw/Pyrolytic Wood and Coal Blends during Co-combustion Process. Journal of Iron and Steel Research International, 2016, 23, 917-923.	2.8	9
36	Effect of B ₂ O ₃ on Slag-Metal Reaction between CaO-Al ₂ O ₃ -Based Mold Flux and High Aluminum Steel. High Temperature Materials and Processes, 2018, 37, 981-985.	1.4	9

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37	Photocatalytic degradation of methyl orange by Ca doped In_2S_3 with varying Ca concentration. Research on Chemical Intermediates, 2022, 48, 1813-1829.	2.7	9
38	Catalytic performance of CeO_2 -NPs and MnO_2 mixed oxides catalysts for low-temperature NH_3 -SCR of NO. Journal of the Energy Institute, 2022, 103, 54-59.	5.3	9
39	Transferability of interatomic potentials with insights into the structure-property relationship of SiO_2 - CaO - MgO - Al_2O_3 melts. Molecular Simulation, 2020, 46, 289-299.	2.0	6
40	A density functional theory study on the adsorption reaction mechanism of double CO_2 on the surface of graphene defects. Journal of Molecular Modeling, 2022, 28, 118.	1.8	5
41	Effect of compositions and additives content on crystallization behavior of Ti-rich phase from Ti-bearing blast furnace slag. Metallurgical Research and Technology, 2017, 114, 415.	0.7	4
42	Ti_3O_5 and Al_2TiO_5 Crystals Flotation Characteristics from Ti-bearing Blast Furnace Slag: A Density Functional Theory and Experimental Study. Crystals, 2020, 10, 838.	2.2	4
43	Influences of Ash-Existing Environments and Coal Structures on CO_2 Gasification Characteristics of Tri-High Coal. Processes, 2020, 8, 1367.	2.8	3
44	Kinetic analysis of CO_2 gasification of biochar and anthracite based on integral isoconversional nonlinear method. High Temperature Materials and Processes, 2020, 39, 527-538.	1.4	3
45	Crystallization behaviors and properties of Ti-bearing blast furnace slag-based glass ceramics with varying CaO/SiO_2 mass ratio. Journal of the Australian Ceramic Society, 2022, 58, 597-605.	1.9	3
46	New Insights into the Traditional Charge Compensation Theory: Amphoteric Behavior of TiO_2 under the Guidance of Supply-Demand Relationship. ACS Omega, 2022, 7, 21225-21232.	3.5	3
47	Study on the Structure and Properties of High-Calcium Coal Ash in the High-Temperature Zone of a Blast Furnace: A Molecular Dynamics Simulation Investigation. Jom, 2020, 72, 2713-2720.	1.9	2
48	<i>In situ</i> observations of isothermal cuspidine crystallization in molten mould fluxes with varying basicity. Ironmaking and Steelmaking, 2021, 48, 149-154.	2.1	2
49	The Effects of FeO and Fe_2O_3 on the Structure and Properties of Aluminosilicate System: A Molecular Dynamics Study. Jom, 2022, 74, 4162-4173.	1.9	2
50	Effects of different exposed crystal surfaces of CeO_2 loaded on an MnO_2/X catalyst for the NH_3 -SCR reaction. CrystEngComm, 2022, 24, 4991-5002.	2.6	2
51	Structural and gasification kinetic studies on co-pyrolysis chars of coal and biomass. Energy Advances, 2022, 1, 225-237.	3.3	0