Shaojun Liu

List of Publications by Year
in descending order

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69 papers	2,133 citations	201575 27 h-index	254106 43 g-index
69 all docs	69 docs citations	69 times ranked	1732 citing authors

#	Article	IF	Citations
1	Formation, transformation, measurement, and control of SO3 in coal-fired power plants. Fuel, 2019, 241, 327-346.	3.4	125
2	Improvement in activity and alkali resistance of a novel V-Ce(SO4)2/Ti catalyst for selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2017, 206, 449-460.	10.8	114
3	Structural defects in 2D MoS2 nanosheets and their roles in the adsorption of airborne elemental mercury. Journal of Hazardous Materials, 2019, 366, 240-249.	6.5	107
4	Speciation of Cu Cations in Cu-CHA Catalysts for NH₃-SCR: Effects of SiO₂/AlO₃ Ratio and Cu-Loading Investigated by Transient Response Methods. ACS Catalysis, 2019, 9, 8916-8927.	5.5	95
5	Physicochemical properties of metal-doped activated carbons and relationship with their performance in the removal of SO2 and NO. Journal of Hazardous Materials, 2011, 188, 58-66.	6.5	90
6	On the Redox Mechanism of Lowâ€Temperature NH₃â€SCR over Cuâ€CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. Angewandte Chemie - International Edition, 2021, 60, 7197-7204.	7.2	77
7	Understanding the deposition and reaction mechanism of ammonium bisulfate on a vanadia SCR catalyst: A combined DFT and experimental study. Applied Catalysis B: Environmental, 2020, 260, 118168.	10.8	73
8	Low temperature catalytic oxidation of propane over cobalt-cerium spinel oxides catalysts. Applied Surface Science, 2019, 479, 1132-1140.	3.1	70
9	Removal and Emission Characteristics of Condensable Particulate Matter in an Ultralow Emission Power Plant. Energy & Fuels, 2018, 32, 10586-10594.	2.5	66
10	Adsorption and reduction of NO2 over activated carbon at low temperature. Fuel Processing Technology, 2011, 92, 139-146.	3.7	63
11	A combined wet electrostatic precipitator for efficiently eliminating fine particle penetration. Fuel Processing Technology, 2018, 180, 122-129.	3.7	57
12	Structure and crystal phase transition effect of Sn doping on anatase TiO2 for dichloromethane decomposition. Journal of Hazardous Materials, 2019, 371, 156-164.	6.5	57
13	Synthesis of Zeolites from Coal Fly Ash for Removal of Harmful Gaseous Pollutants: A Review. Aerosol and Air Quality Research, 2020, 20, 1127-1144.	0.9	57
14	An experimental and modelling study of the reactivity of adsorbed NH3 in the low temperature NH3-SCR reduction half-cycle over a Cu-CHA catalyst. Applied Catalysis B: Environmental, 2020, 279, 119397.	10.8	55
15	Designing SO2-resistant cerium-based catalyst by modifying with Fe2O3 for the selective catalytic reduction of NO with NH3. Molecular Catalysis, 2019, 462, 10-18.	1.0	54
16	Synthesis and characterization of single-phase submicron zeolite Y from coal fly ash and its potential application for acetone adsorption. Microporous and Mesoporous Materials, 2020, 295, 109940.	2.2	46
17	Atmospheric emission inventory of SO3 from coal-fired power plants in China in the period 2009â€“2014. Atmospheric Environment, 2019, 197, 14-21.	1.9	43
18	Numerical simulation of selective catalytic reduction of NO and SO2 oxidation in monolith catalyst. Chemical Engineering Journal, 2019, 361, 874-884.	6.6	41

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19	Transient Kinetic Analysis of Low-Temperature NH₃-SCR over Cu-CHA Catalysts Reveals a Quadratic Dependence of Cu Reduction Rates on Cu^{II}. ACS Catalysis, 2021, 11, 4821-4831.	5.5	41
20	New insight into alkali resistance and low temperature activation on vanadia-titania catalysts for selective catalytic reduction of NO. Applied Surface Science, 2019, 466, 99-109.	3.1	38
21	Experimental study on the evaporation and chlorine migration of desulfurization wastewater in flue gas. Environmental Science and Pollution Research, 2019, 26, 4791-4800.	2.7	37
22	Unraveling the Hydrolysis of Z₂Cu²⁺ to ZCu²⁺(OH)^{â^'} and Its Consequences for the Low-Temperature Selective Catalytic Reduction of NO on Cu-CHA Catalysts. ACS Catalysis, 2021, 11, 11616-11625.	5.5	37
23	Synthesis and characterization of a single phase zeolite A using coal fly ash. RSC Advances, 2018, 8, 42200-42209.	1.7	36
24	KOH-activated hydrochar with engineered porosity as sustainable adsorbent for volatile organic compounds. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 588, 124372.	2.3	36
25	Promotional effect of doping Cu into cerium-titanium binary oxides catalyst for deep oxidation of gaseous dichloromethane. Chemosphere, 2019, 214, 553-562.	4.2	35
26	Insight into the significant roles of microstructures and functional groups on carbonaceous surfaces for acetone adsorption. RSC Advances, 2018, 8, 21541-21550.	1.7	31
27	Synergy of vanadia and ceria in the reaction mechanism of low-temperature selective catalytic reduction of NOx by NH3. Journal of Catalysis, 2020, 391, 145-154.	3.1	30
28	Low temperature selective catalytic reduction of NO and NO2 with NH3 over activated carbon-supported vanadium oxide catalyst. Catalysis Today, 2011, 175, 164-170.	2.2	29
29	Insights into the role of particle space charge effects in particle precipitation processes in electrostatic precipitator. Powder Technology, 2018, 339, 606-614.	2.1	29
30	Promotion effect of KOH surface etching on sucrose-based hydrochar for acetone adsorption. Applied Surface Science, 2019, 496, 143617.	3.1	26
31	Isolation and characterization of two novel root-specific promoters in rice (Oryza sativa L.). Plant Science, 2013, 207, 37-44.	1.7	25
32	Different reactive behaviours of dichloromethane over anatase TiO2 supported RuO2 and V2O5. Catalysis Today, 2020, 355, 349-357.	2.2	23
33	Effect of multi-pollutant on the catalytic oxidation of dichloromethane over RuO2-WO3/Sn0.2Ti0.8O2 catalyst. Fuel, 2020, 278, 118207.	3.4	22
34	Balance and stability between particle collection and re-entrainment inawide temperature-range electrostatic precipitator. Powder Technology, 2018, 340, 543-552.	2.1	20
35	Evaporation and concentration of desulfurization wastewater with waste heat from coal-fired power plants. Environmental Science and Pollution Research, 2019, 26, 27494-27504.	2.7	20
36	Accelerated identification of high-performance catalysts for low-temperature NH₃-SCR by machine learning. Journal of Materials Chemistry A, 2021, 9, 23850-23859.	5.2	19

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37	Dynamic Binuclear Cu^{II} Sites in the Reduction Half-Cycle of Low-Temperature NH₃â€“SCR over Cu-CHA Catalysts. ACS Catalysis, 2022, 12, 5263-5274.	5.5	19
38	Investigating the role of H4SiW12O40 in the acidity, oxidability and activity of H4SiW12O40-Fe2O3 catalysts for the selective catalytic reduction of NO with NH3. Molecular Catalysis, 2018, 448, 177-184.	1.0	18
39	New Insights into the Decomposition Behavior of NH₄HSO₄ on the SiO₂-Decorated SCR Catalyst and Its Enhanced SO₂-Resistant Ability. ACS Omega, 2019, 4, 4927-4935.	1.6	18
40	Current density distribution and optimization of the collection electrodes of a honeycomb wet electrostatic precipitator. RSC Advances, 2018, 8, 30701-30711.	1.7	17
41	Field test of SO3 removal in ultra-low emission coal-fired power plants. Environmental Science and Pollution Research, 2020, 27, 4746-4755.	2.7	17
42	Enhanced Activity of Nb-modified CeO2/TiO2 Catalyst for the Selective Catalytic Reduction of NO with NH3. Aerosol and Air Quality Research, 2018, 18, 2121-2130.	0.9	16
43	On the Redox Mechanism of Lowâ€Temperature NH₃â€SCR over Cuâ€CHA: A Combined Experimental and Theoretical Study of the Reduction Half Cycle. Angewandte Chemie, 2021, 133, 7273-7280.	1.6	15
44	Engineering nano-ordered of Ni nanoparticles on KIT-6 for enhanced catalytic hydrogenation of nitrobenzene. Applied Surface Science, 2020, 525, 146382.	3.1	14
45	Investigation on optimal active layer thickness and pore size in dual-layer NH3-SCR monolith for low SO2 oxidation by numerical simulation. Fuel, 2020, 279, 118420.	3.4	14
46	An Investigation of SO3 Control Routes in Ultra-low Emission Coal-fired Power Plants. Aerosol and Air Quality Research, 2019, 9, 2908-2916.	0.9	13
47	Regeneration of Potassium Poisoned Catalysts for the Selective Catalytic Reduction of NO with NH3. Aerosol and Air Quality Research, 2019, 19, 649-656.	0.9	12
48	Promotional effects of ruthenium oxide on catalytic oxidation of dichloromethane over the tungsten-titanium binary oxides catalyst. Proceedings of the Combustion Institute, 2021, 38, 6461-6471.	2.4	11
49	Mechanism and Enhancement of the Low-Temperature Selective Catalytic Reduction of NOx with NH₃ by Bifunctional Catalytic Mixtures. Industrial & Engineering Chemistry Research, 2021, 60, 6446-6454.	1.8	11
50	Speciation and Thermal Stability of Mercury in Solid Products from Ultralow Emission Air Pollution Control Devices. Energy & Fuels, 2018, 32, 12655-12664.	2.5	10
51	The poisoning effect of PbO on CeO2-MoO3/TiO2 catalyst for selective catalytic reduction of NO with NH3. Molecular Catalysis, 2020, 486, 110877.	1.0	10
52	Investigation of Arsenic Poisoned Selective Catalytic Reduction Catalyst Performance and Lifetime in Coal-Fired Power Plants. Energy & Fuels, 2020, 34, 12833-12840.	2.5	10
53	The H2O Effect on Cu Speciation in Cu-CHA-Catalysts for NH3-SCR Probed by NH3 Titration. Catalysts, 2021, 11, 759.	1.6	9
54	Insights into the Effect of Adsorptionâ€“Desorption Cycles on SO2 Removal over an Activated Carbon. Aerosol and Air Quality Research, 2019, 19, 411-421.	0.9	9

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55	Experiments on Enhancing the Particle Charging Performance of an Electrostatic Precipitator. Aerosol and Air Quality Research, 2019, 19, 1411-1420.	0.9	8
56	Effect of Gas Components and Particulate Matter on the Conversion of Nitric Oxide by Dielectric Barrier Discharge. Energy & Fuels, 2021, 35, 6711-6724.	2.5	7
57	A perspective on the applications of energy-cyber-physical systems (e-CPSs) in ultra-low emission coal-fired power plants. Energy Procedia, 2019, 158, 6139-6144.	1.8	6
58	A Probe into the Low-Temperature SCR Activity: NO Oxidative Activation to Nitrite-Intermediates. Catalysis Letters, 2022, 152, 1140-1144.	1.4	6
59	Enhanced performance of Nb2O5 decorated RuO2/Sn0.2Ti0.8O2 for selective catalytic oxidation of ammonia. Chemical Engineering Research and Design, 2022, 160, 948-957.	2.7	6
60	A Comparative Study of the NH3-SCR Reactions over an Original and Sb-Modified V2O5â€“WO3/TiO2 Catalyst at Low Temperatures. Energies, 2018, 11, 3339.	1.6	5
61	The relationship of morphology and catalytic performance of CeO2 catalysts for reducing nitrobenzene to azoxybenzene under the base-free condition. Chinese Chemical Letters, 2021, 32, 761-764.	4.8	5
62	Whole life cycle performance evolution of selective catalytic reduction catalyst in coal-fired power plants. Fuel Processing Technology, 2021, 219, 106866.	3.7	5
63	Highly efficient selective extraction of Mo with novel hydrophobic deep eutectic solvents. Journal of the Air and Waste Management Association, 2021, 71, 1492-1501.	0.9	5
64	Deactivation by HCl of CeO₂â€“MoO₃/TiO₂ catalyst for selective catalytic reduction of NO with NH₃. RSC Advances, 2018, 8, 17677-17684.	1.7	4
65	Deactivation of Ce-Ti Oxide Catalyst by K3PO4 for the Selective Catalytic Reduction of NO with NH3. Aerosol and Air Quality Research, 2019, 19, 422-430.	0.9	4
66	Non-Thermal Plasma-Modified Ru-Sn-Ti Catalyst for Chlorinated Volatile Organic Compound Degradation. Catalysts, 2020, 10, 1456.	1.6	3
67	Optimal Sensor and Relay Nodes Power Scheduling for Remote State Estimation with Energy Constraint. Sensors, 2020, 20, 1073.	2.1	2
68	The Study on the Active Site Regulated RuOx/Sn0.2Ti0.8O2 Catalysts with Different Ru Precursors for the Catalytic Oxidation of Dichloromethane. Catalysts, 2021, 11, 1306.	1.6	0
69	Effect of Dimethyl Formamide (DMF) on Vanadium Reloading Over V-Ti SCR Catalyst. Frontiers in Energy Research, 2022, 10, .	1.2	0