

Yaxin Su

List of Publications by Year in descending order

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121
papers

2,374
citations

318942

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263392

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docs citations

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times ranked

2435
citing authors

#	ARTICLE	IF	CITATIONS
1	Cyclone pressure drop reduction and its effect on gas-particle separation capability: principle, performance, and assessment. <i>Reviews in Chemical Engineering</i> , 2022, 38, 1045-1063.	2.3	1
2	Sludge preheating and viscosity reduction by waste heat from the exhaust gas of sludge paddle dryer. <i>Drying Technology</i> , 2022, 40, 2617-2629.	1.7	4
3	Insight into performance and mechanism of energy loss for microscale vortex separator/reactor with symmetrical multi-inlets. <i>Powder Technology</i> , 2022, 395, 122-132.	2.1	7
4	Process intensification of SO ₂ /CO ₂ co-capture using microscale vortex flow contactor: Mass transfer behaviors, performance modeling, and flow simulation. <i>Chemical Engineering Science</i> , 2022, 250, 117385.	1.9	4
5	Most efficient mesoporous Mn/Ga-PCH catalyst for low-temperature selective catalytic reduction of NO with C ₃ H ₆ . <i>Vacuum</i> , 2022, 198, 110879.	1.6	4
6	Effect of gas-induced inlet design on flow pattern and energy loss for small-scale countercurrent vortex reactor: Numerical simulation and experimental investigation. <i>Chemical Engineering Research and Design</i> , 2022, 182, 371-380.	2.7	2
7	Synergy of CuNiFe-LDH based catalysts for enhancing low-temperature SCR-C ₃ H ₆ performance: Surface properties and reaction mechanism. <i>Chemical Engineering Journal</i> , 2022, 438, 135570.	6.6	19
8	Selective catalytic reduction of NO with C ₃ H ₆ over CuFe-containing catalysts derived from layered double hydroxides. <i>Fuel</i> , 2021, 283, 119296.	3.4	20
9	Process simulation, optimization and assessment of post-combustion carbon dioxide capture with piperazine-activated blended absorbents. <i>Journal of Cleaner Production</i> , 2021, 282, 124502.	4.6	13
10	SCR of NO with CH ₄ over Fe/Ga ₂ O ₃ -Al ₂ O ₃ and the mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105014.	3.3	10
11	NO selective catalytic reduction with propylene over one-pot synthesized Fe-SAPO-34 catalyst under diesel exhaust conditions. <i>Fuel</i> , 2021, 290, 119822.	3.4	18
12	Application of boundary electro-osmotic pulse to reduce sludge-to-wall adhesion. <i>Water Research</i> , 2021, 195, 116982.	5.3	2
13	Emission characteristics and formation mechanisms of PM _{2.5} from co-firing of algal biomass and coal. <i>Journal of the Energy Institute</i> , 2021, 98, 354-362.	2.7	7
14	Preparation of binder-less activated char briquettes from pyrolysis of sewage sludge for liquid-phase adsorption of methylene blue. <i>Journal of Environmental Management</i> , 2021, 299, 113601.	3.8	16
15	Experimental study on single-mode microwave-induced tungsten wire discharge for NO conversion in NO/N ₂ atmosphere. <i>Environmental Science and Pollution Research</i> , 2021, 28, 19094-19106.	2.7	5
16	Effect of loading sequence between Cu and Fe on SCR-C ₃ H ₆ performance for Al-PILC based bimetallic catalysts. <i>Journal of Physics: Conference Series</i> , 2021, 2079, 012009.	0.3	0
17	Effect of preparation method on the performance of Fe-Ag/Al ₂ O ₃ catalyst in the selective catalytic reduction of NO with propene. <i>Journal of Fuel Chemistry and Technology</i> , 2021, 49, 1631-1637.	0.9	1
18	Gas-Particle Cyclonic Separation Dynamics: Modeling and Characterization. <i>Separation and Purification Reviews</i> , 2020, 49, 112-142.	2.8	15

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19	A new method to characterize sludge stickiness during drying: Effects of sludge temperature and calcium oxide (CaO) on stickiness. <i>Drying Technology</i> , 2020, 38, 1107-1120.	1.7	10
20	Fully selective catalytic oxidation of NO to NO ₂ over most active Ga-PCH catalyst. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103524.	3.3	14
21	Effects of frequency and duty cycle of pulsating direct current on the electro-dewatering performance of sewage sludge. <i>Chemosphere</i> , 2020, 243, 125372.	4.2	25
22	Effect of synthesis parameters on catalytic performance of Fe/Ti-PILC catalysts for SCR-C ₃ H ₆ and in situ DRIFTS study. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104555.	3.3	12
23	Experimental Study on SCR-C ₃ H ₆ Over Cu-Fe/Al-PILC Catalysts: Catalytic Performance, Characterization, and Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 14776-14788.	1.8	13
24	Macro assessment of microalgae-based CO ₂ sequestration: Environmental and energy effects. <i>Algal Research</i> , 2020, 51, 102066.	2.4	21
25	Catalytic Performance and Characterization of Ce-Modified Fe Catalysts Supported on Al ₂ O ₃ for SCR-C ₃ H ₈ . <i>Catalysis Surveys From Asia</i> , 2020, 24, 239-249.	1.0	2
26	Preparations and Characterization on Fe Based Catalyst Supported on Coconut Shell Activated Carbon CS(AC) and SCR of NO _x -HC. <i>Catalysis Surveys From Asia</i> , 2020, 24, 123-133.	1.0	14
27	Wet flue gas desulfurization using micro vortex flow scrubber: Characteristics, modeling and simulation. <i>Separation and Purification Technology</i> , 2020, 247, 116915.	3.9	15
28	Catalytic oxidation of NO at ambient temperature over the chars from pyrolysis of sewage sludge. <i>Chemosphere</i> , 2020, 251, 126429.	4.2	25
29	Gallium oxide impregnated on porous clay heterostructures material for selective catalytic reduction of nitrogen oxide with C ₃ H ₆ . <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103943.	3.3	7
30	Structural and functional relationships of activated char briquettes from pyrolysis of sewage sludge for methylene blue removal. <i>Journal of Cleaner Production</i> , 2020, 259, 120907.	4.6	9
31	Advanced control of NO emission from algal biomass combustion using loaded iron-based additives. <i>Energy</i> , 2019, 185, 229-238.	4.5	28
32	Porous clay heterostructures (PCHs) modified with copper ferrite spinel as catalyst for SCR of NO with C ₃ H ₆ . <i>Chemical Engineering Journal</i> , 2019, 375, 122091.	6.6	35
33	Emission and conversion of NO from algal biomass combustion in O ₂ /CO ₂ atmosphere. <i>Journal of Environmental Management</i> , 2019, 250, 109419.	3.8	9
34	Flow Pattern and Pressure Drop for Small Long-Cylinder Cyclones Operating at High Flow Rates. <i>Chemical Engineering and Technology</i> , 2019, 42, 1960-1969.	0.9	7
35	Performance improvement of cyclone separator by integrated compact bends. <i>Powder Technology</i> , 2019, 353, 64-71.	2.1	16
36	Selective Catalytic Reduction of Nitric Oxide with Propylene over Fe/Beta Catalysts Under Lean-Burn Conditions. <i>Catalysts</i> , 2019, 9, 205.	1.6	10

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37	Effect of Ag on deNO performance of SCR-C ₃ H ₆ over Fe/Al-PILC catalysts. Journal of Fuel Chemistry and Technology, 2019, 47, 1368-1378.	0.9	14
38	Orthogonal experimental study on hydrothermal treatment of municipal sewage sludge for mechanical dewatering followed by thermal drying. Journal of Cleaner Production, 2019, 209, 236-249.	4.6	58
39	Iron based monolithic catalysts supported on Al ₂ O ₃ , SiO ₂ , and TiO ₂ : A comparison for NO reduction with propane. Fuel, 2018, 220, 330-338.	3.4	40
40	Investigation of NO conversion by different types of sewage sludge chars under low temperature. Journal of Environmental Management, 2018, 209, 236-244.	3.8	14
41	Particle size cut performance of aerodynamic cyclone separators: Generalized modeling and characterization by correlating global cyclone dimensions. Journal of Aerosol Science, 2018, 120, 1-11.	1.8	10
42	Experimental study on selective catalytic reduction of NO by C ₃ H ₆ over Fe/Ti-PILC catalysts. Journal of Fuel Chemistry and Technology, 2018, 46, 1231-1239.	0.9	28
43	Microwave-assisted ethanol decomposition over pyrolysis residue of sewage sludge for hydrogen-rich gas production. International Journal of Hydrogen Energy, 2018, 43, 15762-15772.	3.8	7
44	Montmorillonite based porous clay heterostructures modified with Fe as catalysts for selective catalytic reduction of NO with propylene. Chemical Engineering Journal, 2018, 353, 839-848.	6.6	53
45	Effect of calcium oxide (CaO) and sawdust on adhesion and cohesion characteristics of sewage sludge under agitated and non-agitated drying conditions. Water Research, 2017, 110, 150-160.	5.3	15
46	Surface properties and reactivity of Fe/Al ₂ O ₃ /cordierite catalysts for NO reduction by C ₂ H ₆ : Effects of calcination temperature. Chemical Engineering Journal, 2017, 326, 737-744.	6.6	34
47	Experimental study on selective catalytic reduction of NO with propene over iron based catalysts supported on aluminum pillared clays. Journal of Fuel Chemistry and Technology, 2017, 45, 1499-1507.	0.9	23
48	Experimental study on selective catalytic reduction of NO by C ₃ H ₆ over Fe-Ag/Al ₂ O ₃ catalysts. Journal of Fuel Chemistry and Technology, 2017, 45, 1365-1375.	0.9	15
49	Theoretical study of two states reactivity of NO activation on iron atom. MATEC Web of Conferences, 2016, 69, 03007.	0.1	0
50	Numerical modelling of effect of channel width on heat transfer and ventilation in a built-in PV-Trombe wall. Journal of Physics: Conference Series, 2016, 745, 032069.	0.3	6
51	SO ₂ /NO _x emissions and ash formation from algae biomass combustion: Process characteristics and mechanisms. Energy, 2016, 113, 821-830.	4.5	71
52	Process, performance and modeling of CO ₂ capture by chemical absorption using high gravity: A review. Renewable and Sustainable Energy Reviews, 2016, 65, 44-56.	8.2	63
53	NO reduction by propane over monolithic cordierite-based Fe/Al ₂ O ₃ catalyst: Reaction mechanism and effect of H ₂ O/SO ₂ . Fuel, 2016, 182, 352-360.	3.4	46
54	Cyclone performances depend on multiple factors: comments on "A CFD study of the effect of cyclone size on its performance parameters" by Mehdi Azadi et al. (2010). Journal of Hazardous Materials, 2016, 303, 174-176.	6.5	5

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55	Removal of NO by methane over iron in simulated flue gas with SO ₂ . <i>Fuel</i> , 2016, 170, 9-15.	3.4	11
56	Evolution and comparative assessment of ambient air quality standards in China. <i>Journal of Integrative Environmental Sciences</i> , 2016, , 1-18.	1.0	22
57	Post-combustion CO ₂ capture with ammonia by vortex flow-based multistage spraying: Process intensification and performance characteristics. <i>Energy</i> , 2016, 102, 106-117.	4.5	32
58	NO reduction by methane over iron oxides: Characteristics and mechanisms. <i>Fuel</i> , 2015, 160, 80-86.	3.4	23
59	Carbon dioxide fixation and biomass production from combustion flue gas using energy microalgae. <i>Energy</i> , 2015, 89, 347-357.	4.5	92
60	Preparation, characterization, and properties of monolithic Fe/Al ₂ O ₃ /cordierite catalysts for NO reduction with C ₂ H ₆ . <i>Applied Catalysis A: General</i> , 2015, 505, 402-409.	2.2	26
61	Publication-based survey for status of scientific research and impact on post-combustion CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2015, 32, 56-60.	2.3	2
62	Microwave-assisted methane decomposition over pyrolysis residue of sewage sludge for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 9169-9179.	3.8	21
63	Process effect of microalgal-carbon dioxide fixation and biomass production: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 31, 121-132.	8.2	340
64	Experimental study on agitated drying characteristics of sewage sludge under the effects of different additive agents. <i>Journal of Environmental Sciences</i> , 2014, 26, 1523-1529.	3.2	14
65	Mass transfer performance of CO ₂ capture in rotating packed bed: Dimensionless modeling and intelligent prediction. <i>Applied Energy</i> , 2014, 136, 132-142.	5.1	61
66	The Effect of Fresh Air Opening Locations on Natural Ventilation and Thermal Environment in Industrial Workshop with Heat Source. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 93-100.	0.3	1
67	Theoretical Calculation of Heat Transfer Coefficient When Sludge Drying in a Nara-Type Paddle Dryer Using Different Heat Carriers. <i>Procedia Environmental Sciences</i> , 2013, 18, 709-715.	1.3	14
68	Effect of reactor geometry on aqueous ammonia-based carbon dioxide capture in bubble column reactors. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 481-487.	2.3	22
69	Experiment Study on NO Reduction by Reburning of Waste Tire. <i>Procedia Environmental Sciences</i> , 2013, 18, 359-365.	1.3	7
70	Modeling of Natural Ventilation in Solar Chimney and Optimization of the Channel Profile by CFD Method. <i>Applied Mechanics and Materials</i> , 2013, 368-370, 549-553.	0.2	0
71	Effect of CO/CH ₄ on Redox of Iron during NO Reduction by XRD/SEM. <i>Applied Mechanics and Materials</i> , 2013, 448-453, 559-563.	0.2	0
72	Numerical Study on NO Mechanism during High Temperature Air Combustion of Natural Gas. <i>Applied Mechanics and Materials</i> , 2012, 190-191, 609-614.	0.2	0

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73	Hydrogen-Rich Gas Production from Microwave Pyrolysis of Sewage Sludge at High Temperature. Advanced Materials Research, 2012, 610-613, 2302-2306.	0.3	0
74	Experimental Study of NO Reduction by Iron in CO Atmosphere. Advanced Materials Research, 2012, 518-523, 2138-2142.	0.3	3
75	Thermal Balance Calculation for Sludge Drying-Incineration System Based on Spreadsheet Software. Advanced Materials Research, 2012, 516-517, 124-128.	0.3	1
76	Simulation of High Temperature Air Combustion with modified Eddy-Break-Up combustion model. Energy Procedia, 2012, 14, 127-132.	1.8	6
77	Post-combustion CO ₂ capture by aqueous ammonia: A state-of-the-art review. International Journal of Greenhouse Gas Control, 2012, 9, 355-371.	2.3	146
78	Notice of Retraction: A Novel Concept for Waste Tire Recycles: As Reburning Fuel for NO _x Reduction. , 2011, , .		0
79	Prediction of swirling combustion in high temperature and low oxygen condition. , 2011, , .		0
80	Theoretical study of the performance of a novel PV/e roof module for heat pump operation. Energy Conversion and Management, 2011, 52, 603-614.	4.4	101
81	Numerical simulation of effect of inlet configuration on square cyclone separator performance. Powder Technology, 2011, 210, 293-303.	2.1	93
82	Entropy generation of staggered short pin fin arrays. , 2011, , .		1
83	Numerical study of the effect of air outlet opening on natural ventilation in a workshop. , 2011, , .		0
84	NO emission from high temperature air combustion of natural gas with longitudinal and swirling burner. , 2011, , .		0
85	Notice of Retraction: Numerical Simulation of Inlet Oxygen Influence on NO Emission under Preheated Air Condition. , 2011, , .		0
86	Numerical Study of High-Temperature Air Combustion Using Different Jet Nozzle. , 2011, , .		0
87	The Improvement of Natural Ventilation in an Industrial Workshop by Solar Chimney. , 2011, , .		1
88	An Unsteady Model for Natural Ventilation with Solar Chimney. Advanced Materials Research, 2011, 354-355, 286-289.	0.3	1
89	Combustion Performance and NO Emission in Industrial Furnace under Preheated Air Condition with Different Excess Air Ratio. Advanced Materials Research, 2011, 402, 463-466.	0.3	0
90	Influence of Preheated Air Temperature on High Temperature Air Combustion in Furnace with Swirling Burner: a Modeling Study. Advanced Materials Research, 2011, 354-355, 315-318.	0.3	1

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91	Numerical Study of Effect of Burner Jet Parameters on High Temperature Air Combustion of Coal Gas. , 2011, , .		0
92	Second Law Optimization of Pin Fin Heat Exchangers with Lateral Ejection Holes. , 2011, , .		0
93	Simulation of Turbulent Flow in Square Cyclone Separator with Different Gas Exhaust. Industrial & Engineering Chemistry Research, 2011, 50, 12162-12169.	1.8	17
94	Catalysis Reduction of NO and HCN/NH ₃ during Reburning: a Short Review. Advanced Materials Research, 2011, 354-355, 365-368.	0.3	4
95	Numerical Study of Low NO Emission Operated in High Temperature Air Combustion. , 2010, , .		0
96	Efficient and cost effective reburning using common wastes as fuel and additives. Fuel, 2010, 89, 2569-2582.	3.4	30
97	Artificial neural network-based modeling of pressure drop coefficient for cyclone separators. Chemical Engineering Research and Design, 2010, 88, 606-613.	2.7	55
98	Pyrolysis of Waste Tire and Its Model. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	2
99	CFD Simulation of High Temperature Air Combustion of Coal Gas at Different Air Straddle Angle. International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering, 2010, , .	0.0	4
100	Scale-Up of Paddle Dryer Based on Experimental Drying Kinetics Data. , 2010, , .		0
101	Effect of Solar Chimney on Natural Ventilation in an Industrial Workshop. , 2010, , .		0
102	A Thermogravimetric Study of Waste Tire Powder. , 2010, , .		3
103	Pyrolysis of Waste Tire Powder and Its Comparison with Shenhua Coal. , 2009, , .		3
104	Modeling of Low NO _x Combustion of Coal Gas with High Temperature Air from a Multi-jet Burner. , 2009, , .		3
105	Particle Collection Theory for Cyclone Separators: Summary and Comparison. Particle and Particle Systems Characterization, 2006, 23, 484-488.	1.2	8
106	Experimental study on the gas-solid suspension flow in a square cyclone separator. Chemical Engineering Journal, 2006, 121, 51-58.	6.6	52
107	The turbulent characteristics of the gas-solid suspension in a square cyclone separator. Chemical Engineering Science, 2006, 61, 1395-1400.	1.9	23
108	Simulation of Gas Flow Pattern and Separation Efficiency in Cyclone with Conventional Single and Spiral Double Inlet Configuration. Chemical Engineering Research and Design, 2006, 84, 1158-1165.	2.7	185

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109	CFD Simulation and Retrofit of Natural Ventilation in a Steel Workshop. <i>Advanced Materials Research</i> , 0, 383-390, 6608-6613.	0.3	3
110	Numerical Simulation of the Natural Ventilation in Workshop with Different Air Inlet Openings. <i>Advanced Materials Research</i> , 0, 250-253, 3187-3190.	0.3	3
111	Modeling of Steady Natural Ventilation in Solar Chimney. <i>Applied Mechanics and Materials</i> , 0, 71-78, 4568-4571.	0.2	0
112	Modeling of Buoyancy-Driven Natural Ventilation in Workshop: Optimization of Distance between Heat Source and Ground. <i>Applied Mechanics and Materials</i> , 0, 170-173, 2579-2582.	0.2	1
113	Effect of Skylight Width on Natural Ventilation in Industrial Workshop. <i>Advanced Materials Research</i> , 0, 446-449, 2904-2907.	0.3	0
114	Natural Ventilation in Workshop with Different Horizontal Arrangement of Heat Source. <i>Applied Mechanics and Materials</i> , 0, 229-231, 2411-2414.	0.2	0
115	Effect of CO ₂ and O ₂ on Catalytic Reduction of NO by Iron. <i>Advanced Materials Research</i> , 0, 616-618, 1849-1852.	0.3	3
116	Modeling of Natural Ventilation in Built-in Photovoltaic-Trombe Wall. <i>Applied Mechanics and Materials</i> , 0, 448-453, 1537-1541.	0.2	3
117	Hydrogen-Rich Gas Formation Characteristics under Microwave Catalytic Pyrolysis of Sewage Sludge. <i>Advanced Materials Research</i> , 0, 781-784, 2429-2432.	0.3	0
118	Numerical Simulation of Air Flow in BiPV-Trombe Wall. <i>Advanced Materials Research</i> , 0, 860-863, 141-145.	0.3	8
119	XRD/SEM/EDS Analysis of Iron Surface after NO Reduction with CH ₄ in N ₂ and SO ₂ Atmosphere. <i>Advanced Materials Research</i> , 0, 955-959, 2392-2396.	0.3	0
120	CH ₄ Decomposition over Pyrolysis Residue of Sewage Sludge under Microwave Heating. <i>Advanced Materials Research</i> , 0, 953-954, 935-938.	0.3	0
121	Effect of Water Vapor on NO Reduction by Iron in N ₂ Atmosphere. <i>Advanced Materials Research</i> , 0, 955-959, 3479-3483.	0.3	0