

Xiaolong Tang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105
papers

2,472
citations

25
h-index

46
g-index

106
ext. papers

3,194
ext. citations

5.9
avg, IF

5.39
L-index

#	Paper	IF	Citations
105	Promotional mechanisms of activity and SO ₂ tolerance of Co- or Ni-doped MnO _x -CeO ₂ catalysts for SCR of NO _x with NH ₃ at low temperature. <i>Chemical Engineering Journal</i> , 2017 , 317, 20-31	14.7	236
104	Low temperature selective catalytic reduction of NO with NH ₃ over amorphous MnO catalysts prepared by three methods. <i>Catalysis Communications</i> , 2007 , 8, 329-334	3.2	208
103	Low-temperature selective catalytic reduction of NO _x with NH ₃ over cerium and manganese oxides supported on TiO ₂ /graphene. <i>Chemical Engineering Journal</i> , 2015 , 260, 776-784	14.7	137
102	A Review on Selective Catalytic Reduction of NO _x by NH ₃ over Mn-Based Catalysts at Low Temperatures: Catalysts, Mechanisms, Kinetics and DFT Calculations. <i>Catalysts</i> , 2017 , 7, 199	4	114
101	In-situ DRIFTS for the mechanistic studies of NO oxidation over MnO ₂ , Mn ₂ O ₃ and Mn ₃ O ₄ catalysts. <i>Chemical Engineering Journal</i> , 2017 , 322, 525-537	14.7	111
100	Behaviors and kinetics of toluene adsorption-desorption on activated carbons with varying pore structure. <i>Journal of Environmental Sciences</i> , 2018 , 67, 104-114	6.4	88
99	Copper modified activated coke for mercury removal from coal-fired flue gas. <i>Chemical Engineering Journal</i> , 2016 , 286, 585-593	14.7	85
98	Improvement of activity, selectivity and H ₂ O&SO ₂ -tolerance of micro-mesoporous CrMn ₂ O ₄ spinel catalyst for low-temperature NH ₃ -SCR of NO _x . <i>Applied Surface Science</i> , 2019 , 466, 411-424	6.7	84
97	Novel Co/Ni/Mn binary oxide catalysts with hydroxyl groups for NH ₃ -SCR of NO _x at low temperature. <i>Applied Surface Science</i> , 2018 , 443, 103-113	6.7	70
96	Low temperature catalytic oxidation of nitric oxide over the Mn ₂ O ₃ catalyst modified by nonthermal plasma. <i>Catalysis Communications</i> , 2015 , 64, 12-17	3.2	68
95	An experimental and theoretical study of the adsorption removal of toluene and chlorobenzene on coconut shell derived carbon. <i>Chemosphere</i> , 2018 , 206, 285-292	8.4	63
94	Manganese Oxides Supported on TiO ₂ /graphene Nanocomposite Catalysts for Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 11601-11610	3.9	55
93	Effect of Potassium-Precursor Promoters on Catalytic Oxidation Activity of Mn-CoO _x Catalysts for NO Removal. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9116-9123	3.9	52
92	Spontaneous Formation of Asymmetric Oxygen Vacancies in Transition-Metal-Doped CeO ₂ Nanorods with Improved Activity for Carbonyl Sulfide Hydrolysis. <i>ACS Catalysis</i> , 2020 , 10, 11739-11750	13.1	44
91	Facile and fast synthesis of novel Mn ₂ CoO ₄ @rGO catalysts for the NH ₃ -SCR of NO _x at low temperature. <i>Chemical Engineering Journal</i> , 2018 , 333, 467-476	14.7	38
90	Controlled Synthesis of Spinel-Type Mesoporous Mn ₂ Co Rods for SCR of NO _x with NH ₃ at Low Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 3606-3617	3.9	37
89	Effects of copper-precursors on the catalytic activity of Cu/graphene catalysts for the selective catalytic oxidation of ammonia. <i>Applied Surface Science</i> , 2017 , 412, 37-44	6.7	34

88	Using CuO-MnO/AC-H as catalyst for simultaneous removal of Hg ⁰ and NO from coal-fired flue gas. <i>Journal of Hazardous Materials</i> , 2019 , 364, 700-709	12.8	34
87	Formation of active oxygen species on single-atom Pt catalyst and promoted catalytic oxidation of toluene. <i>Nano Research</i> , 2020 , 13, 1544-1551	10	33
86	Interactive Effect for Simultaneous Removal of SO ₂ , NO, and CO ₂ in Flue Gas on Ion Exchanged Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 6778-6784	3.9	32
85	Enhancement effects of ultrasound assisted in the synthesis of NiAl hydrotalcite for carbonyl sulfide removal. <i>Ultrasonics Sonochemistry</i> , 2016 , 32, 336-342	8.9	29
84	High-efficiency catalytic oxidation of nitric oxide over spherical Mn Co spinel catalyst at low temperature. <i>Applied Surface Science</i> , 2019 , 479, 548-556	6.7	28
83	Promotion of low temperature oxidation of toluene vapor derived from the combination of microwave radiation and nano-size Co ₃ O ₄ . <i>Chemical Engineering Journal</i> , 2018 , 333, 554-563	14.7	28
82	Simultaneous catalytic hydrolysis of carbonyl sulfide and carbon disulfide over Al ₂ O ₃ -K/CAC catalyst at low temperature. <i>Journal of Energy Chemistry</i> , 2014 , 23, 221-226	12	26
81	The poisoning and regeneration effect of alkali metals deposited over commercial V ₂ O ₅ -WO ₃ /TiO ₂ catalysts on SCR of NO by NH ₃ . <i>Science Bulletin</i> , 2014 , 59, 3966-3972		26
80	Energy Utilization of Yellow Phosphorus Tail Gas: Simultaneous Catalytic Hydrolysis of Carbonyl Sulfide and Carbon Disulfide at Low Temperature. <i>Energy Technology</i> , 2015 , 3, 136-144	3.5	25
79	Effect of hierarchical element doping on the low-temperature activity of manganese-based catalysts for NH ₃ -SCR. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 104399	6.8	24
78	Improving simultaneous removal efficiency of SO ₂ and NO _x from flue gas by surface modification of MgO with organic component. <i>Journal of Cleaner Production</i> , 2019 , 230, 508-517	10.3	23
77	Application of AERMOD on near future air quality simulation under the latest national emission control policy of China: a case study on an industrial city. <i>Journal of Environmental Sciences</i> , 2013 , 25, 1608-17	6.4	21
76	Removal of volatile odorous organic compounds over NiAl mixed oxides at low temperature. <i>Journal of Hazardous Materials</i> , 2018 , 344, 797-810	12.8	20
75	The effect of non-selective oxidation on the Mn ₂ Co ₁₀ O _x catalysts for NH ₃ -SCR: Positive and non-positive. <i>Chemical Engineering Journal</i> , 2020 , 385, 123797	14.7	20
74	Isolated single-atom Pt sites for highly selective electrocatalytic hydrogenation of formaldehyde to methanol. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 8913-8919	13	19
73	Simultaneous Removal of SO ₂ , NO, and CO ₂ on Metal-Modified Coconut Shell Activated Carbon. <i>Water, Air, and Soil Pollution</i> , 2014 , 225, 1	2.6	19
72	Preparation and Phosphine Adsorption of Activated Carbon Prepared from Walnut Shells by KOH Chemical Activation. <i>Separation Science and Technology</i> , 2014 , 49, 2366-2375	2.5	19
71	Nitrogen Fixation and NO Conversion using Dielectric Barrier Discharge Reactor: Identification and Evolution of Products. <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 485-501	3.6	18

70	Studies on the Dual-Templating Function of TBA for the Formation of ZSM-11 Intergrowth Morphology. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 2120-2128	3.9	18
69	Adsorption behavior of chloroform, carbon disulfide, and acetone on coconut shell-derived carbon: experimental investigation, simulation, and model study. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 31219-31229	5.1	17
68	Study of reaction mechanism based on further promotion of low temperature degradation of toluene using nano-CeO/CoO under microwave radiation for cleaner production in spraying processing. <i>Journal of Hazardous Materials</i> , 2019 , 373, 321-334	12.8	16
67	Transition in air pollution, disease burden and health cost in China: A comparative study of long-term and short-term exposure. <i>Environmental Pollution</i> , 2021 , 277, 116770	9.3	16
66	Novel synthesis of Pd-CeMnO perovskite based on unique ultrasonic intervention from combination of Sol-Gel and impregnation method for low temperature efficient oxidation of benzene vapour. <i>Ultrasonics Sonochemistry</i> , 2018 , 48, 418-423	8.9	16
65	Removal of toluene from industrial gas over 13X zeolite supported catalysts by adsorption-plasma catalytic process. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 2276-2286	3.5	15
64	MnNiO spinel catalyst for high-efficiency selective catalytic reduction of nitrogen oxides with good resistance to HO and SO at low temperature. <i>Journal of Environmental Sciences</i> , 2020 , 89, 145-155	6.4	15
63	Performance and Pathways of Toluene Degradation over Co/13X by Different Processes Based on Nonthermal Plasma. <i>Energy & Fuels</i> , 2017 , 31, 11217-11224	4.1	14
62	NOx Removal over Modified Carbon Molecular Sieve Catalysts Using a Combined Adsorption-Discharge Plasma Catalytic Process. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 9097-9103	3.9	14
61	Novel synthesis of MeO (Ni, Cu, La)@Nano-CoO from combination of complexation and impregnation in ultrasonic intervention for low temperature oxidation of toluene under microwave radiation. <i>Ultrasonics Sonochemistry</i> , 2018 , 40, 543-551	8.9	14
60	Characterization of Metal Oxide-modified Walnut-shell Activated Carbon and Its Application for Phosphine Adsorption: Equilibrium, Regeneration, and Mechanism Studies. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019 , 34, 487-495	1	13
59	Fe-modified Ce-MnO/ACF catalysts for selective catalytic reduction of NO by NH at low-middle temperature. <i>Environmental Science and Pollution Research</i> , 2019 , 26, 27940-27952	5.1	13
58	NO removal in the process of adsorption non-thermal plasma catalytic decomposition. <i>RSC Advances</i> , 2014 , 4, 8502	3.7	13
57	Simultaneous Adsorption of SO ₂ , NO, and CO ₂ by K ₂ CO ₃ -Modified γ -Alumina. <i>Chemical Engineering and Technology</i> , 2014 , 37, 1049-1054	2	13
56	N ₂ O Formation Characteristics in Dielectric Barrier Discharge Reactor for Environmental Application: Effect of Operating Parameters. <i>Energy & Fuels</i> , 2017 , 31, 13901-13908	4.1	13
55	Removal of Toluene from Industrial Gas by Adsorption-Plasma Catalytic Process: Comparison of Closed Discharge and Ventilated Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2018 , 38, 331-345	3.6	12
54	An Efficient Two-Step Method for NH ₃ Removal at Low Temperature Using CoOx-CuOx/TiO ₂ as SCO Catalyst Followed by NiMn ₂ O ₄ as SCR Catalyst. <i>Energy & Fuels</i> , 2017 , 31, 8580-8593	4.1	12
53	The byproduct generation analysis of the NOx conversion process in dielectric barrier discharge plasma. <i>RSC Advances</i> , 2016 , 6, 63946-63953	3.7	12

52	Nitric oxide decomposition using atmospheric pressure dielectric barrier discharge reactor with different adsorbents. <i>RSC Advances</i> , 2014 , 4, 58417-58425	3.7	11
51	Spinel-structured MnNi nanosheets for NH ₃ -SCR of NO with good H ₂ O and SO ₂ resistance at low temperature. <i>Catalysis Science and Technology</i> , 2020 , 10, 7486-7501	5.5	11
50	NiO-Modified Coconut Shell Based Activated Carbon Pretreated with KOH for the High-Efficiency Adsorption of NO at Ambient Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16593-16603	3.9	11
49	Reducing the competitive adsorption between SO ₂ and NO by Al ₂ O ₃ @TiO ₂ core-shell structure adsorbent. <i>Chemical Engineering Journal</i> , 2019 , 364, 420-427	14.7	10
48	Adsorption Separation of CO ₂ /CH ₄ Gas Mixture on Carbon Molecular Sieves Modified by Potassium Carbonate. <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 2197-2201	2.8	10
47	One-step synthesis, characterization and catalytic performance of hierarchical Zn-ZSM-11 via facile ZnO routes. <i>RSC Advances</i> , 2015 , 5, 8152-8162	3.7	10
46	Selective catalytic reduction of NO _x with NH ₃ over iron-cerium mixed oxide catalyst prepared by different methods. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 232-245	3.5	10
45	Improving the Efficiency of Mn-CeO _x /Cordierite Catalysts for Nonmethane Hydrocarbon Oxidation in Cooking Oil Fumes. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4186-4194	3.9	9
44	Study of the properties of adsorption of SO ₂ thermal regeneration cycle of activated coke modified by oxidization. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 720-729	3.5	9
43	Products Yield and Energy Efficiency of Dielectric Barrier Discharge for NO Conversion: Effect of O ₂ Content, NO Concentration, and Flow Rate. <i>Energy & Fuels</i> , 2017 , 31, 9675-9683	4.1	9
42	Evolution mechanism of transition metal in NH-SCR reaction over Mn-based bimetallic oxide catalysts: Structure-activity relationships. <i>Journal of Hazardous Materials</i> , 2021 , 413, 125361	12.8	9
41	Recent advances in selective catalytic oxidation of nitric oxide (NO-SCO) in emissions with excess oxygen: a review on catalysts and mechanisms. <i>Environmental Science and Pollution Research</i> , 2021 , 28, 2549-2571	5.1	9
40	Adsorptive removal of carbonyl sulfide by Fe-modified activated carbon: experiments and DFT calculations. <i>Adsorption</i> , 2017 , 23, 1013-1022	2.6	8
39	Novel MnCe bi-oxides loaded on 3D monolithic nickel foam for low-temperature NH ₃ -SCR de-NO : Preparation optimization and reaction mechanism. <i>Journal of Rare Earths</i> , 2020 ,	3.7	8
38	Effects of Preparation Conditions on the Performance of Simultaneous Desulfurization and Denitrification over Ni/Fe Hydrotalcite-like Compounds. <i>Energy & Fuels</i> , 2016 , 30, 2295-2301	4.1	8
37	Mn-Fe-Ce Coating onto Cordierite Monoliths as Structured Catalysts for NO Catalytic Oxidation. <i>ChemistrySelect</i> , 2019 , 4, 4664-4671	1.8	7
36	Study on active coke-based adsorbents for SO ₂ removal in flue gas. <i>Journal of Chemical Technology and Biotechnology</i> , 2015 , 90, 1876-1885	3.5	7
35	Facile fabrication of nanosheet-assembled MnCoO hollow flower-like microspheres as highly effective catalysts for the low-temperature selective catalytic reduction of NO by NH ₃ . <i>Environmental Science and Pollution Research</i> , 2019 , 26, 35846-35859	5.1	6

34	Effects of seeding on the fast crystallization of ZSM-11 microspheres with intergrowth morphology and small particle size. <i>Journal of Porous Materials</i> , 2016 , 23, 273-284	2.4	5
33	Mn-CeO _x /MeO _x (Ti, Al)/cordierite preparation with ultrasound-assisted for non-methane hydrocarbon removal from cooking oil fumes. <i>Ultrasonics Sonochemistry</i> , 2019 , 53, 126-133	8.9	5
32	Novel Ni-Mn Bi-oxides Doped Active Coke Catalysts for NH ₃ -SCR De-NO _x at Low Temperature. <i>ChemistrySelect</i> , 2020 , 5, 6494-6503	1.8	5
31	Studies on the calcium poisoning and regeneration of commercial De-NO _x SCR catalyst. <i>Chemical Papers</i> , 2017 , 71, 1921-1928	1.9	5
30	Study on coadsorption of SO ₂ , NO, and CO ₂ over copper-supported activated carbon sorbent in different operating conditions. <i>Environmental Progress and Sustainable Energy</i> , 2015 , 34, 1044-1049	2.5	5
29	Co- or Ni-modified Sn-MnO _x low-dimensional multi-oxides for high-efficient NH-SCR De-NO _x : Performance optimization and reaction mechanism.. <i>Journal of Environmental Sciences</i> , 2022 , 113, 204-218	6.4	5
28	Cordierite-supported metal oxide for non-methane hydrocarbon oxidation in cooking oil fumes. <i>Environmental Technology (United Kingdom)</i> , 2019 , 40, 3358-3363	2.6	4
27	Simultaneous removal of gaseous CO and elemental mercury over Cu-Co modified activated coke at low temperature. <i>Journal of Environmental Sciences</i> , 2021 , 101, 36-48	6.4	4
26	Study on mechanism of low-temperature oxidation of n-hexanal catalysed by 2D ultrathin Co ₃ O ₄ nanosheets. <i>Nano Research</i> , 1	10	4
25	Acid modification enhances selective catalytic reduction activity and sulfur dioxide resistance of manganese-cerium-cobalt catalysts: Insight into the role of phosphotungstic acid. <i>Journal of Colloid and Interface Science</i> , 2021 , 603, 291-306	9.3	4
24	Promoting Simultaneous Desulfurization and Denitrification Performance of Al ₂ O ₃ @TiO ₂ Core/Shell Structure Adsorbents by Enhancing Oxidation Performance: Modification by Rare Earth Elements (La, Ce, and Y), Reaction Temperature, and Oxygen Concentration. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5423-5431	3.9	3
23	Promotional Effects of Transition Metal Modification over Al ₂ O ₃ for CH ₃ SH Catalytic Oxidation. <i>ChemistrySelect</i> , 2019 , 4, 9901-9907	1.8	3
22	Removal of NO Using a Dielectric Barrier Discharge Reactor in a Cycled Adsorption/Desorption and Decomposition System. <i>Arabian Journal for Science and Engineering</i> , 2017 , 42, 1463-1474	2.5	3
21	Environmental risk assessment system for phosphogypsum tailing dams. <i>Scientific World Journal, The</i> , 2013 , 2013, 680798	2.2	3
20	Comparison of Selective Catalytic Reduction Performance of Mn/Co Bi-Metal Oxides Prepared by Different Methods. <i>ChemistrySelect</i> , 2020 , 5, 9409-9416	1.8	3
19	A novel semi-dry method for the simultaneous removal of Hg and SO ₂ using spray drying absorption method. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 1431-1440	3.5	2
18	Ultrasound-assisted modification of Al ₂ O ₃ @TiO ₂ -Ce core-shell structure adsorbent for simultaneous desulfurization and denitrification. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2261-2271	3.5	2
17	Study on the Behavior of Divalent Metal Ion in the Crystallization of Hierarchical ZSM-11. <i>Chemistry Letters</i> , 2018 , 47, 1158-1161	1.7	2

16	Non-thermal plasma-assisted catalytic oxidation of NO in a dielectric barrier discharge reactor packed with MO _x /Al ₂ O ₃ (M = Mn or Co) as catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3180-3189	3.5	2
15	Catalytic Oxidation of Nitric Oxide over MnBe Metal Oxides Catalysts. <i>Journal of Chemical Engineering of Japan</i> , 2014 , 47, 671-677	0.8	2
14	Structural control for inhibiting SO ₂ adsorption in porous MnCe nanowire aerogel catalysts for low-temperature NH ₃ -SCR. <i>Chemical Engineering Journal</i> , 2022 , 434, 134729	14.7	2
13	Inhibition of CO in Blast Furnace Flue Gas on Poisoning and Deactivation of a Ni/Activated Carbon Catalyst in COS Hydrolysis. <i>Industrial & Engineering Chemistry Research</i> ,	3.9	2
12	Manganese oxides supported on ACFN by a one-step redox method for the low-temperature NO _x reduction with NH ₃ : effect of acid addition. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 1380-1391	3.5	2
11	Enhancement strategies for SCR activity, H ₂ O & SO ₂ resistances and N ₂ selectivity on upgraded HMoP/Co/MnCeO _x /NF catalysts. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 106190	6.8	2
10	Influence mechanism of different precursors on the adsorption behavior of NO _x over Cu ²⁺ ion-exchange ZSM-5. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 3356-3366	3.5	1
9	Efficient catalytic oxidation of methyl mercaptan to sulfur dioxide with NiCuFe mixed metal oxides. <i>Environmental Technology and Innovation</i> , 2022 , 26, 102252	7	1
8	One-step synthesis by redox co-precipitation method for low-dimensional Me-Mn bi-metal oxides (Me=Co, Ni, Sn) as SCR DeNO _x catalysts. <i>Environmental Science and Pollution Research</i> , 2021 , 29, 21210	5.1	1
7	Trends in air pollutant emissions from the sintering process of the iron and steel industry in the Fenwei Plain and surrounding regions in China, 2014-2017. <i>Chemosphere</i> , 2021 , 291, 132917	8.4	1
6	Selective catalytic reduction of NO _x with NH ₃ on Mn, Co-BTC-derived catalysts: Influence of thermal treatment temperature. <i>Journal of Solid State Chemistry</i> , 2022 , 307, 122843	3.3	1
5	MnCo binary oxides for low-temperature catalytic oxidation of NO: effect of SO ₂ and regeneration. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2956-2964	3.5	1
4	The optimization of hydrothermal synthesis of Mn _x Co _{3-x} O ₄ /GC catalyst for low temperature NH ₃ -SCR /using design of experiments. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2963-2975 ¹	3.5	1
3	Application of MCM-48 with large specific surface area for VOCs elimination: synthesis and hydrophobic functionalization for highly efficient adsorption.. <i>Environmental Science and Pollution Research</i> , 2022 , 1	5.1	0
2	Byproducts Generation Characteristics of Non-thermal Plasma for NO Conversion: Effect of Reaction Conditions. <i>Plasma Chemistry and Plasma Processing</i> , 2021 , 41, 369-387	3.6	0
1	Fix of Zn species in silicalite-2 via a facile crystallisation process control route. <i>Micro and Nano Letters</i> , 2020 , 15, 451-454	0.9	