Recent Advances in the Catalytic Oxidation of Volatile O on Pollutant Sorts and Sources

Chemical Reviews 119, 4471-4568

DOI: 10.1021/acs.chemrev.8b00408

Citation Report

#	Article	IF	CITATIONS
1	Insight into the boosted catalytic performance and chlorine resistance of nanosphere-like meso-macroporous CrOx/MnCo3Ox for 1,2-dichloroethane destruction. Applied Catalysis B: Environmental, 2019, 259, 118018.	10.8	79
2	Reactive Grinding Synthesis of LaBO3 (B: Mn, Fe) Perovskite; Properties for Toluene Total Oxidation. Catalysts, 2019, 9, 633.	1.6	20
3	Hydrotalcite-Derived Cu _{<i>x</i>} Mg _{3–<i>x</i>} AlO Oxides for Catalytic Degradation of <i>n</i> Butylamine with Low Concentration NO and Pollutant-Destruction Mechanism. Industrial & Engineering Chemistry Research, 2019, 58, 9362-9371.	1.8	16
4	Z-scheme Ag ₃ PO ₄ /Ag/SrTiO ₃ Heterojunction for Visible-Light Induced Photothermal Synergistic VOCs Degradation with Enhanced Performance. Industrial & Engineering Chemistry Research, 2019, 58, 13950-13959.	1.8	41
5	Research progress, challenges and perspectives on the sulfur and water resistance of catalysts for low temperature selective catalytic reduction of NOx by NH3. Applied Catalysis A: General, 2019, 588, 117207.	2.2	85
6	Catalytic Oxidation of VOCs over SmMnO ₃ Perovskites: Catalyst Synthesis, Change Mechanism of Active Species, and Degradation Path of Toluene. Inorganic Chemistry, 2019, 58, 14275-14283.	1.9	70
7	Low-Temperature Benzene Abatement over Active Manganese Oxides with Abundant Catalytic Sites. Industrial & Engineering Chemistry Research, 2019, 58, 17601-17607.	1.8	11
8	Mechanism of photocatalytic toluene oxidation with ZnWO ₄ : a combined experimental and theoretical investigation. Catalysis Science and Technology, 2019, 9, 5692-5697.	2.1	20
9	Influence of Ambient and Oxygen Temperatures on Fluid Flow Characteristics Considering Swirl-type Supersonic Oxygen Jets. ISIJ International, 2019, 59, 2272-2282.	0.6	23
10	Ultrafast reductive dechlorination of carbon tetrachloride by amorphous Fe78Si9B13 alloy. Results in Physics, 2019, 14, 102523.	2.0	5
11	Effect of noble metal addition to alkali-exchanged cryptomelane on the simultaneous soot and VOC combustion activity. Catalysis Communications, 2019, 132, 105807.	1.6	15
12	Effect of surface fluorination of P25-TiO2 coated on nickel substrate for photocatalytic oxidation of methyl ethyl ketone in indoor environments. Journal of Environmental Chemical Engineering, 2019, 7, 103390.	3.3	27
13	Highly dispersed Pd/modified-Al2O3 catalyst on complete oxidation of toluene: Role of basic sites and mechanism insight. Applied Surface Science, 2019, 497, 143747.	3.1	50
14	Catalytic Materials for Low Concentration VOCs Removal through "Storageâ€Regeneration―Cycling. ChemCatChem, 2019, 11, 3646-3661.	1.8	23
15	Atomicâ€Scale Insights into the Lowâ€Temperature Oxidation of Methanol over a Singleâ€Atom Pt ₁ â€Co ₃ O ₄ Catalyst. Advanced Functional Materials, 2019, 29, 1902041.	7.8	115
16	Active and stable Pt-Ceria nanowires@silica shell catalyst: Design, formation mechanism and total oxidation of CO and toluene. Applied Catalysis B: Environmental, 2019, 256, 117807.	10.8	57
17	Recent progress on carbon nanomaterials for the electrochemical detection and removal of environmental pollutants. Nanoscale, 2019, 11, 11992-12014.	2.8	118
18	In-Depth Understanding of the Morphology Effect of α-Fe ₂ O ₃ on Catalytic Ethane Destruction. ACS Applied Materials & Interfaces, 2019, 11, 11369-11383.	4.0	91

#	Article	IF	CITATIONS
19	Synthesis of mesoporous MnO2 nanosheets and its application in toluene purification reaction. IOP Conference Series: Materials Science and Engineering, 2019, 677, 022056.	0.3	0
20	3. Functional catalysts for catalytic removal of formaldehyde from air. , 2019, , 89-126.		4
21	Understanding the Role of NbO <i>_x</i> on Pt/Al ₂ O ₃ for Effective Catalytic Propane Oxidation. Industrial & Engineering Chemistry Research, 2019, 58, 21945-21952.	1.8	32
22	Boosting acetone oxidation efficiency over MnO ₂ nanorods by tailoring crystal phases. New Journal of Chemistry, 2019, 43, 19126-19136.	1.4	35
23	Highly improved acetone oxidation activity over mesoporous hollow nanospherical Mn _x Co _{3â^'x} O ₄ solid solutions. Catalysis Science and Technology, 2019, 9, 6379-6390.	2.1	45
24	Silver-Copper Oxide Heteronanostructures for the Plasmonic-Enhanced Photocatalytic Oxidation of N-Hexane in the Visible-NIR Range. Materials, 2019, 12, 3858.	1.3	11
25	Preparation of Ag-Mn/Ĵ³-Al2O3-TiO2 catalysts by complexation-impregnation process with citric acid and its application in propane catalytic combustion. Journal of Fuel Chemistry and Technology, 2019, 47, 1379-1385.	0.9	8
26	Effective lowâ€ŧemperature catalytic abatement of benzene over porous Mnâ€Ni composite oxides synthesized via the oxalate route. Journal of Chemical Technology and Biotechnology, 2020, 95, 1008-1015.	1.6	7
27	3D CQDs-{001}TiO2/Ti photoelectrode with dominant {001} facets: Efficient visible-light-driven photoelectrocatalytic oxidation of organic pollutants and mechanism insight. Applied Catalysis B: Environmental, 2020, 261, 118229.	10.8	40
28	MCM-41 supported nano-sized CuO-CeO2 for catalytic combustion of chlorobenzene. Journal of Rare Earths, 2020, 38, 933-940.	2.5	30
29	Synthesis of W-Nb-O solid acid for catalytic combustion of low-concentration monochlorobenzene. Chemical Engineering Journal, 2020, 382, 123045.	6.6	28
30	Remarkable promotion effect of lauric acid on Mn-MIL-100 for non-thermal plasma-catalytic decomposition of toluene. Applied Surface Science, 2020, 503, 144290.	3.1	38
31	The preparation of hierarchical Pt/ZSM-5 catalysts and their performance for toluene catalytic combustion. Microporous and Mesoporous Materials, 2020, 296, 109802.	2.2	48
32	Comparative study of α-, β-, γ- and δ-MnO2 on toluene oxidation: Oxygen vacancies and reaction intermediates. Applied Catalysis B: Environmental, 2020, 260, 118150.	10.8	400
33	Unraveling the mechanism of binary channel reactions in photocatalytic formaldehyde decomposition for promoted mineralization. Applied Catalysis B: Environmental, 2020, 260, 118130.	10.8	99
34	Non-thermal plasma coupled with MOF-74 derived Mn-Co-Ni-O porous composite oxide for toluene efficient degradation. Journal of Hazardous Materials, 2020, 383, 121143.	6.5	88
35	Structural variations and generation of binding sites in Fe-loaded ZSM-5 and silica under the effect of UV-irradiation and their role in enhanced BTEX abatement from gas streams. Journal of Hazardous Materials, 2020, 384, 121274.	6.5	16
36	Superior catalytic activity of a Pd catalyst in methane combustion by fine-tuning the phase of ceria-zirconia support. Applied Catalysis B: Environmental, 2020, 266, 118631.	10.8	99

ARTICLE IF CITATIONS # Amine modified nano-sized hierarchical hollow system for highly effective and stable 37 3.4 33 oxidative-adsorptive desulfurization. Fuel, 2020, 266, 116960. Photo/electrocatalysis and photosensitization using metal nanoclusters for green energy and 2.2 79 medical applications. Nanoscale Advances, 2020, 2, 17-36. Catalytic total oxidation of toluene over carbon-supported Cu Co oxide catalysts derived from 39 2.1 41 Cu-based metal organic framework. Powder Technology, 2020, 363, 95-106. Oxygen vacancies mediated charge separation and collection in Pt/WO3 nanosheets for enhanced 3.1 54 photocatalytic performance. Applied Surface Science, 2020, 507, 145133. Biogenic Pt/CaCO₃ Nanocomposite as a Robust Catalyst toward Benzene Oxidation. ACS 41 4.0 44 Applied Materials & amp; Interfaces, 2020, 12, 2469-2480. Sol–gel citrate procedure to synthesize Ag/Co3O4 catalysts with enhanced activity for propane catalytic combustion. Chemical Papers, 2020, 74, 1449-1457. 1.0 Asymmetric Oxygen Vacancies: the Intrinsic Redox Active Sites in Metal Oxide Catalysts. Advanced 43 5.6 141 Science, 2020, 7, 1901970. A review on recent advances in catalytic combustion of chlorinated volatile organic compounds. 44 1.6 Journal of Chemical Technology and Biotechnology, 2020, 95, 2069-2082. Lead bismuth oxybromide/graphene oxide: Synthesis, characterization, and photocatalytic activity for 45 removal of carbon dioxide, crystal violet dye, and 2-hydroxybenzoic acid. Journal of Colloid and 5.0 71 Interface Science, 2020, 562, 112-124. Terbium-based metal-organic frameworks: highly selective and fast respond sensor for styrene detection and construction of molecular logic gate. Journal of Hazardous Materials, 2020, 388, 6.5 121816. Enhanced photothermal catalytic degradation of toluene by loading Pt nanoparticles on manganese 47 6.5 67 oxide: Photoactivation of lattice oxygen. Journal of Hazardous Materials, 2020, 388, 121800. LaMnO3 perovskites via a facile nickel substitution strategy for boosting propane combustion 2.3 performance. Ceramics International, 2020, 46, 6652-6662. Mesoporous Co3O4 catalysts for VOC elimination: Oxidation of 2-propanol. Applied Catalysis A: 49 2.2 47 General, 2020, 590, 117366. Elimination of chloroaromatic congeners on a commercial V2O5-WO3/TiO2 catalyst: The effect of 6.5 heavy metal Pb. Journal of Hazardous Materials, 2020, 387, 121705. Yolk-shell-like mesoporous CoCrOx with superior activity and chlorine resistance in 51 10.8 90 dichloromethane destruction. Applied Catalysis B: Environmental, 2020, 264, 118493. Modeling for catalytic oxidation of volatile organic compound (VOC) in a catalytic converter. Materials Today: Proceedings, 2020, 26, 3341-3347. 53 Nanostructured MoO3 for Efficient Energy and Environmental Catalysis. Molecules, 2020, 25, 18. 1.7 74 Formation and kinetic studies of manganese(IV)-oxo porphyrins: Oxygen atom transfer mechanism of 54 1.5 sulfide oxidations. Journal of Inorganic Biochemistry, 2020, 204, 110986.

#	Article	IF	CITATIONS
55	Photothermal conversion of graphene/layered manganese oxide 2D/2D composites for room-temperature catalytic purification of gaseous formaldehyde. Journal of the Taiwan Institute of Chemical Engineers, 2020, 107, 119-128.	2.7	25
56	Tuning smaller Co3O4 nanoparticles onto HZSM-5 zeolite via complexing agents for boosting toluene oxidation performance. Applied Surface Science, 2020, 532, 147320.	3.1	72
57	Hierarchical NiCo2O4-MnO -NF monolithic catalyst synthesized by in-situ alternating anode and cathode electro-deposition strategy: Strong interfacial anchoring force promote catalytic performance. Applied Surface Science, 2020, 532, 147485.	3.1	6
58	Synergistic effect between Mn and Ce for active and stable catalytic wet air oxidation of phenol over MnCeOx. Applied Catalysis A: General, 2020, 604, 117774.	2.2	43
59	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO2-Based Building Materials. Nanomaterials, 2020, 10, 1854.	1.9	44
60	Promoting effect of rhodium on Co/ZnAl2O4 catalysts for the catalytic combustion of hydrocarbons. Catalysis Today, 2021, 372, 2-10.	2.2	3
61	Advances in Catalytic Oxidation of Volatile Organic Compounds over Pd-Supported Catalysts: Recent Trends and Challenges. Frontiers in Materials, 2020, 7, .	1.2	36
62	Organoclay-derived lamellar silicon carbide/carbon composite as an ideal support for Pt nanoparticles: facile synthesis and toluene oxidation performance. Chemical Communications, 2020, 56, 9489-9492.	2.2	3
63	Low temperature benzene oxidation over copper–silver catalyst: roles of copper oxide and silver on cerium–zirconium mixed oxide. Catalysis Science and Technology, 2020, 10, 6780-6789.	2.1	9
64	Facile synthesis of CuCo spinel composite oxides for toluene oxidation in air. Ceramics International, 2020, 46, 21542-21550.	2.3	21
65	Preparation of MnO2 decorated Co3Fe1O powder/monolithic catalyst with improved catalytic activity for toluene oxidation. Journal of Environmental Sciences, 2020, 96, 194-203.	3.2	22
66	Low temperature catalytic combustion of chlorobenzene over cobalt based mixed oxides derived from layered double hydroxides. Applied Catalysis B: Environmental, 2020, 278, 119336.	10.8	75
67	An explicit study of local ozone budget and NOx-VOCs sensitivity in Shenzhen China. Atmospheric Environment, 2020, 224, 117304.	1.9	85
68	Flexible ZnO/PANI/nonwoven nanocomposite based high-sensitive NH3 gas sensor via vapor phase polymerization method. Materials Science for Energy Technologies, 2020, 3, 862-867.	1.0	5
69	Cooperative Catalysis toward Oxygen Reduction Reaction under Dual Coordination Environments on Intrinsic AMnO ₃ â€1ype Perovskites via Regulating Stacking Configurations of Coordination Units. Advanced Materials, 2020, 32, e2006145.	11.1	26
70	Engineering the Nucleophilic Active Oxygen Species in CuTiO _{<i>x</i>} for Efficient Low-Temperature Propene Combustion. Environmental Science & Technology, 2020, 54, 15476-15488.	4.6	48
71	Unveiling the unconventional roles of methyl number on the ring-opening barrier in photocatalytic decomposition of benzene, toluene and o-xylene. Applied Catalysis B: Environmental, 2020, 278, 119318.	10.8	57
72	Unveiling the Effects of Alkali Metal Ions Intercalated in Layered MnO ₂ for Formaldehyde Catalytic Oxidation. ACS Catalysis, 2020, 10, 10021-10031.	5.5	102

#	Article	IF	CITATIONS
73	Abatement of Toluene Using a Sequential Adsorption-Catalytic Oxidation Process: Comparative Study of Potential Adsorbent/Catalytic Materials. Catalysts, 2020, 10, 761.	1.6	7
74	Grand Challenges for Catalytic Remediation in Environmental and Energy Applications Toward a Cleaner and Sustainable Future. Frontiers in Environmental Chemistry, 2020, 1, .	0.7	34
75	Regulating SnO2 surface by metal oxides possessing redox or acidic properties: The importance of active O2â^'/O22â^' and acid sites for toluene deep oxidation. Applied Catalysis A: General, 2020, 605, 117755.	2.2	15
76	Layered Î'-MnO2 as an active catalyst for toluene catalytic combustion. Applied Catalysis A: General, 2020, 602, 117715.	2.2	55
77	Platinum Nanoparticles Supported on Hierarchically Porous Aluminosilicate Nanospheres for Low-Temperature Catalytic Combustion of Volatile Organic Compounds. ACS Applied Nano Materials, 2020, 3, 8472-8482.	2.4	12
78	Taming NO oxidation efficiency by \hat{I}^3 -MnO2 morphology regulation. Catalysis Science and Technology, 2020, 10, 5996-6005.	2.1	16
79	Functional metal–organic frameworks as effective sensors of gases and volatile compounds. Chemical Society Reviews, 2020, 49, 6364-6401.	18.7	784
80	A three-dimensional covalent organic framework with turn-on luminescence for molecular decoding of volatile organic compounds. Sensors and Actuators B: Chemical, 2020, 323, 128708.	4.0	30
81	Boosting Toluene Combustion by Engineering Co–O Strength in Cobalt Oxide Catalysts. Environmental Science & Technology, 2020, 54, 10342-10350.	4.6	165
82	Functional Mesoporous Silica Nanomaterials for Catalysis and Environmental Applications. Bulletin of the Chemical Society of Japan, 2020, 93, 1459-1496.	2.0	114
83	Efficient combustion of chlorinated volatile organic compounds driven by natural sunlight. Science of the Total Environment, 2020, 749, 141595.	3.9	14
84	Single-atom site catalysts for environmental catalysis. Nano Research, 2020, 13, 3165-3182.	5.8	252
85	Total catalytic oxidation of chlorinated aromatics over bimetallic Pt–Ru supported on hierarchical HZSM-5 zeolite. Microporous and Mesoporous Materials, 2020, 308, 110538.	2.2	31
86	Comparative Studies of Phosphate-Modified CeO ₂ and Al ₂ O ₃ for Mechanistic Understanding of Dichloromethane Oxidation and Chloromethane Formation. ACS Catalysis, 2020, 10, 13109-13124.	5.5	34
87	A novel ferrisilicate MEL zeolite with bi-functional adsorption/catalytic oxidation properties for non-methane hydrocarbon removal from cooking oil fumes. Microporous and Mesoporous Materials, 2020, 309, 110509.	2.2	10
88	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. Critical Reviews in Environmental Science and Technology, 2022, 52, 311-355.	6.6	54
89	Efficient and stable degradation of chlorobenzene over a porous iron–manganese oxide supported ruthenium catalyst. Catalysis Science and Technology, 2020, 10, 7203-7216.	2.1	23
90	Hydrocarbon and Soot Oxidation over Cerium and Iron Doped Vanadium SCR Catalysts. ChemCatChem, 2020, 12, 6272-6284.	1.8	9

#	ARTICLE	IF	CITATIONS
91	Effect of Mg modification on the catalytic performance of Co/γ-Al2O3-TiO2 in the combustion of propane. Journal of Fuel Chemistry and Technology, 2020, 48, 867-874.	0.9	5
92	Roles of Oxygen Vacancies in the Bulk and Surface of CeO ₂ for Toluene Catalytic Combustion. Environmental Science & Technology, 2020, 54, 12684-12692.	4.6	231
93	Enhanced Catalytic Oxidation of Chlorobenzene over MnO ₂ Grafted In Situ by Rare Earth Oxide: Surface Doping Induces Lattice Oxygen Activation. Inorganic Chemistry, 2020, 59, 14407-14414.	1.9	44
94	SrFe _{1â^x} Sn _x O _{3â^î^} nanoparticles with enhanced redox properties for catalytic combustion of benzene. Catalysis Science and Technology, 2020, 10, 6342-6349.	2.1	8
95	The Influence of Residual Sodium on the Catalytic Oxidation of Propane and Toluene over Co3O4 Catalysts. Catalysts, 2020, 10, 867.	1.6	7
96	Synthesis and catalytic properties of a novel copper- and manganese-substituted cerium dioxide for benzene remediation. Journal of Chemical Research, 2020, , 174751982094588.	0.6	0
97	Preparation of nickel-foam-supported Pd/NiO monolithic catalyst and construction of novel electric heating reactor for catalytic combustion of VOCs. Applied Catalysis A: General, 2020, 607, 117839.	2.2	19
98	Effect of Absorbed Sulfate Poisoning on the Performance of Catalytic Oxidation of VOCs over MnO ₂ . ACS Applied Materials & amp; Interfaces, 2020, 12, 50566-50572.	4.0	36
99	Direct electrooxidation of alkynes to benzoin bis-ethers. Organic Chemistry Frontiers, 2020, 7, 4064-4068.	2.3	19
100	Oxidation of Dichloromethane over Au, Pt, and Pt-Au Containing Catalysts Supported on γ-Al2O3 and CeO2-Al2O3. Molecules, 2020, 25, 4644.	1.7	7
101	Unraveling the effects of the coordination number of Mn over α-MnO2 catalysts for toluene oxidation. Chemical Engineering Journal, 2020, 396, 125192.	6.6	110
102	<i>In situ</i> synthesis of ultrafine metallic MoO ₂ /carbon nitride nanosheets for efficient photocatalytic hydrogen generation: a prominent cocatalytic effect. Catalysis Science and Technology, 2020, 10, 4053-4060.	2.1	9
103	Difference of Oxidation Mechanism between Light C3–C4 Alkane and Alkene over Mullite YMn ₂ O ₅ Oxides' Catalyst. ACS Catalysis, 2020, 10, 7269-7282.	5.5	68
104	Toluene oxidation process and proper mechanism over Co3O4 nanotubes: Investigation through in-situ DRIFTS combined with PTR-TOF-MS and quasi in-situ XPS. Chemical Engineering Journal, 2020, 397, 125375.	6.6	134
105	Photothermocatalytic synergistic oxidation: An effective way to overcome the negative water effect on supported noble metal catalysts for VOCs oxidation. Chemical Engineering Journal, 2020, 397, 125485.	6.6	44
106	Propane and Naphthalene Oxidation over Gold-Promoted Cobalt Catalysts Supported on Zirconia. Catalysts, 2020, 10, 387.	1.6	4
107	Adsorptive removal of an eight-component volatile organic compound mixture by Cu-, Co-, and Zr-metal-organic frameworks: Experimental and theoretical studies. Chemical Engineering Journal, 2020, 397, 125391.	6.6	72
108	Synthesis and adsorption behavior of activated carbon impregnated with ASZM-TEDA for purification of contaminated air. Diamond and Related Materials, 2020, 108, 107916.	1.8	16

#	Article	IF	CITATIONS
109	Facet- and defect-engineered Pt/Fe2O3 nanocomposite catalyst for catalytic oxidation of airborne formaldehyde under ambient conditions. Journal of Hazardous Materials, 2020, 395, 122628.	6.5	48
110	Sea-urchin-like mesoporous copper-manganese oxide catalysts: Influence of copper on benzene oxidation. Journal of Industrial and Engineering Chemistry, 2020, 89, 156-165.	2.9	16
111	Volatile organic compounds enhancing sulfuric acid-based ternary homogeneous nucleation: The important role of synergistic effect. Atmospheric Environment, 2020, 233, 117609.	1.9	11
112	Efficient and selective adsorption and separation of methylene blue (MB) from mixture of dyes in aqueous environment employing a Cu(II) based metal organic framework. Inorganica Chimica Acta, 2020, 511, 119787.	1.2	52
113	High efficiency xylene detection based on porous MoO3 nanosheets. Vacuum, 2020, 179, 109487.	1.6	32
114	Application of modified Kalina cycle in biomass chp plants. International Journal of Energy Research, 2020, 44, 8754-8768.	2.2	1
115	Advances in thermocatalytic and photocatalytic techniques for the room/low temperature oxidative removal of formaldehyde in air. Chemical Engineering Journal, 2020, 399, 125759.	6.6	48
116	Synergistic effects of Cu species and acidity of Cu-ZSM-5 on catalytic performance for selective catalytic oxidation of n-butylamine. Journal of Environmental Sciences, 2020, 96, 55-63.	3.2	20
117	Synergistic Photocatalytic Decomposition of a Volatile Organic Compound Mixture: High Efficiency, Reaction Mechanism, and Long-Term Stability. ACS Catalysis, 2020, 10, 7230-7239.	5.5	98
118	<i>In situ</i> anchored NiCo ₂ O ₄ on a nickel foam as a monolithic catalyst by electro-deposition for improved benzene combustion performance. CrystEngComm, 2020, 22, 2371-2379.	1.3	13
119	Investigating the Support Effect for Catalytic Elimination of Methyl Mercaptan: Role of Hydroxyl Groups over Cr-based Catalysts. Catalysis Letters, 2020, 150, 2763-2773.	1.4	11
120	Adsorption/oxidation of ethyl mercaptan on Fe-N-modified active carbon catalyst. Chemical Engineering Journal, 2020, 393, 124680.	6.6	34
121	Controllable redox-induced in-situ growth of MnO2 over Mn2O3 for toluene oxidation: Active heterostructure interfaces. Applied Catalysis B: Environmental, 2020, 278, 119279.	10.8	131
122	Catalytic activity of porous manganese oxides for benzene oxidation improved via citric acid solution combustion synthesis. Journal of Environmental Sciences, 2020, 98, 196-204.	3.2	21
123	Bimetallic Catalysts for Volatile Organic Compound Oxidation. Catalysts, 2020, 10, 661.	1.6	23
124	NiCo2O4 spinel for efficient toluene oxidation: The effect of crystal plane and solvent. Chemosphere, 2020, 259, 127427.	4.2	33
125	CoMnMgAl mixed oxides prepared by a microwave assisted self-combustion synthesis for toluene total oxidation. Molecular Catalysis, 2020, 493, 111080.	1.0	5
126	Novel synthetic route to Ce-Cu-W-O microspheres for efficient catalytic oxidation of vinyl chloride emissions. Chinese Journal of Catalysis, 2020, 41, 1864-1872.	6.9	5

#	Article	IF	CITATIONS
127	Stabilizing platinum atoms on CeO2 oxygen vacancies by metal-support interaction induced interface distortion: Mechanism and application. Applied Catalysis B: Environmental, 2020, 278, 119304.	10.8	120
128	Photoinduced Pt-Decorated Expanded Graphite toward Low-Temperature Benzene Catalytic Combustion. Industrial & Engineering Chemistry Research, 2020, 59, 11453-11461.	1.8	14
129	Catalytic oxidation of o-chlorophenol over Co2XAl (X = Co, Mg, Ca, Ni) hydrotalcite-derived mixed oxide catalysts. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	3.3	8
130	Au nanoparticle modified single-crystalline p-type LaRhO3/SrTiO3 heterostructure for high performing VOCs sensor. Ceramics International, 2020, 46, 22140-22145.	2.3	15
131	Effect of various electrolytes and other wastewater constituents on the degradation of volatile organic compounds in aqueous solution by pulsed power plasma technology. Environmental Science: Water Research and Technology, 2020, 6, 2209-2222.	1.2	4
132	PEG400-modified EMT zeolite for acetone adsorption. Journal of Materials Science, 2020, 55, 13737-13750.	1.7	7
133	Reactive Grinding synthesis of La(Sr,Ce)CoO ₃ and their properties in toluene catalytic total oxidation. ChemCatChem, 2020, 12, 2271-2282.	1.8	12
134	Electrospun nanofibrous composites from cellulose acetate / ultra-high silica zeolites and their potential for VOC adsorption from air. Carbohydrate Polymers, 2020, 236, 116071.	5.1	27
135	Distribution and formation mechanisms of polychlorinated organic by-products upon the catalytic oxidation of 1,2-dichlorobenzene with palladium-loaded catalysts. Journal of Hazardous Materials, 2020, 393, 122412.	6.5	36
136	Intimate coupling of photocatalysis and biodegradation for wastewater treatment: Mechanisms, recent advances and environmental applications. Water Research, 2020, 175, 115673.	5.3	146
137	Promotion effect of strong metal-support interaction to thermocatalytic, photocatalytic, and photothermocatalytic oxidation of toluene on Pt/SrTiO3. Chemosphere, 2020, 249, 126096.	4.2	37
138	Complete Benzene Oxidation over Mono and Bimetallic Pd—Au Catalysts on Alumina-Supported Y-Doped Ceria. Applied Sciences (Switzerland), 2020, 10, 1088.	1.3	4
139	Revealing the unexpected promotion effect of diverse potassium precursors on α-MnO ₂ for the catalytic destruction of toluene. Catalysis Science and Technology, 2020, 10, 2100-2110.	2.1	35
140	Tuning the metal-support interaction on chromium-based catalysts for catalytically eliminate methyl mercaptan: Anchored active chromium species through surface hydroxyl groups. Chemical Engineering Journal, 2020, 389, 124384.	6.6	36
141	Synergistic effect of CuO nanocrystals and Cu-oxo-Fe clusters on silica support in promotion of total catalytic oxidation of toluene as a model volatile organic air pollutant. Applied Catalysis B: Environmental, 2020, 268, 118749.	10.8	63
142	Introduce oxygen vacancies into CeO2 catalyst for enhanced coke resistance during photothermocatalytic oxidation of typical VOCs. Applied Catalysis B: Environmental, 2020, 269, 118755.	10.8	184
143	Enhanced photocatalytic activity under visible light by the synergistic effects of plasmonics and Ti3+-doping at the Ag/TiO2- heterojunction. Ceramics International, 2020, 46, 10667-10677.	2.3	51
144	Catalytic reaction mechanism of formaldehyde oxidation by oxygen species over Pt/TiO2 catalyst. Chemosphere, 2020, 248, 125980.	4.2	46

#	Article	IF	Citations
145	A critical review on VOCs adsorption by different porous materials: Species, mechanisms and modification methods. Journal of Hazardous Materials, 2020, 389, 122102.	6.5	504
146	Air pollution (volatile organic compound, etc.) and climate change. , 2020, , 31-46.		2
147	Silver-based semiconductor Z-scheme photocatalytic systems for environmental purification. Journal of Hazardous Materials, 2020, 390, 122128.	6.5	122
148	Rare earth oxides and their supported noble metals in application of environmental catalysis. Journal of Rare Earths, 2020, 38, 819-839.	2.5	49
149	Recent advance on VOCs oxidation over layered double hydroxides derived mixed metal oxides. Chinese Journal of Catalysis, 2020, 41, 550-560.	6.9	61
150	Morphology-activity correlation of electrospun CeO2 for toluene catalytic combustion. Chemosphere, 2020, 247, 125860.	4.2	32
151	Catalytic oxidation of benzene over alumina-supported Cu-Mn-Ce mixed oxide catalysts. Korean Journal of Chemical Engineering, 2020, 37, 54-64.	1.2	14
152	Simultaneous removal of multiple indoor-air pollutants using a combined process of electrostatic precipitation and catalytic decomposition. Chemical Engineering Journal, 2020, 388, 124219.	6.6	27
153	A novel solar photo-Fenton system with self-synthesizing H2O2: Enhanced photo-induced catalytic performances and mechanism insights. Applied Surface Science, 2020, 512, 145650.	3.1	51
154	Comparative investigation on catalytic ozonation of VOCs in different types over supported MnO catalysts. Journal of Hazardous Materials, 2020, 391, 122218.	6.5	106
155	Adsorptive removal of toluene and dichloromethane from humid exhaust on MFI, BEA and FAU zeolites: An experimental and theoretical study. Chemical Engineering Journal, 2020, 394, 124986.	6.6	58
156	Designing a dumbbell-brush-type Co3O4 for efficient catalytic toluene oxidation. Catalysis Communications, 2020, 140, 106005.	1.6	16
157	Unveiling the secondary pollution in the catalytic elimination of chlorinated organics: The formation of dioxins. Chinese Chemical Letters, 2020, 31, 1410-1414.	4.8	50
158	Hierarchical zeolite enveloping Pd-CeO2 nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. Chemical Engineering Journal, 2020, 393, 124717.	6.6	62
159	<i>In situ</i> growth of well-aligned Ni-MOF nanosheets on nickel foam for enhanced photocatalytic degradation of typical volatile organic compounds. Nanoscale, 2020, 12, 9462-9470.	2.8	66
160	Mesoporous Silica Membranes Silylated by Fluorinated and Non-Fluorinated Alkylsilanes for the Separation of Methyl Tert-Butyl Ether from Water. Membranes, 2020, 10, 70.	1.4	14
161	Visible light generation of chromium(V)-oxo salen complexes and mechanistic insights into catalytic sulfide oxidation. Inorganica Chimica Acta, 2020, 509, 119681.	1.2	6
162	Distinctive Bimetallic Oxides for Enhanced Catalytic Toluene Combustion: Insights into the Tunable Fabrication of Mnâ^'Ce Hollow Structure. ChemCatChem, 2020, 12, 2872-2879.	1.8	27

#	Article	IF	CITATIONS
163	Development of a multi-active center catalyst in mediating the catalytic destruction of chloroaromatic pollutants: A combined experimental and theoretical study. Applied Catalysis B: Environmental, 2020, 272, 119015.	10.8	71
164	Study on the structure-activity relationship of Fe-Mn oxide catalysts for chlorobenzene catalytic combustion. Chemical Engineering Journal, 2020, 395, 125172.	6.6	83
165	Size effect, mutual inhibition and oxidation mechanism of the catalytic removal of a toluene and acetone mixture over TiO2 nanosheet-supported Pt nanocatalysts. Applied Catalysis B: Environmental, 2020, 274, 118963.	10.8	125
166	Formation of active oxygen species on single-atom Pt catalyst and promoted catalytic oxidation of toluene. Nano Research, 2020, 13, 1544-1551.	5.8	89
167	Catalytic activity of Pt species variously dispersed on hollow ZrO2 spheres in combustion of volatile organic compounds. Applied Surface Science, 2020, 513, 145788.	3.1	41
168	Anisotropic Au-ZnO photocatalyst for the visible-light expanded oxidation of n-hexane. Catalysis Today, 2021, 362, 97-103.	2.2	21
169	Facile fabrication of hollow structured Cu-Ce binary oxides and their catalytic properties for toluene combustion. Catalysis Today, 2021, 376, 239-246.	2.2	22
170	Low Temperature Oxidation of Benzene Over Pd/Co3O4 Catalysts in the Electric Field. Catalysis Letters, 2021, 151, 67-77.	1.4	2
171	Efficient removal of toluene over palladium supported on hierarchical alumina microspheres catalyst. Catalysis Today, 2021, 375, 352-359.	2.2	10
172	Three-dimensionally ordered macroporous MnSmO composite oxides for propane combustion: Modification effect of Sm dopant. Catalysis Today, 2021, 376, 211-221.	2.2	37
173	Catalytic oxidation of dimethyl phthalate over titania-supported noble metal catalysts. Journal of Hazardous Materials, 2021, 401, 123274.	6.5	15
174	Boosting catalytic oxidation of propane over mixed-phase CoO-Co3O4 nanoparticles: Effect of CoO. Chemical Physics, 2021, 540, 110984.	0.9	23
175	Simulating alveoli-inspired air pockets in a ZnO/NiMoO4/C3N4 catalyst filter for toluene entrapment and photodecomposition. Journal of Hazardous Materials, 2021, 409, 124497.	6.5	23
176	Recent advances in VOC elimination by catalytic oxidation technology onto various nanoparticles catalysts: a critical review. Applied Catalysis B: Environmental, 2021, 281, 119447.	10.8	467
177	How to achieve complete elimination of Cl-VOCs: A critical review on byproducts formation and inhibition strategies during catalytic oxidation. Chemical Engineering Journal, 2021, 404, 126534.	6.6	132
178	Pd-based catalysts promoted by hierarchical porous Al2O3 and ZnO microsphere supports/coatings for ethyl acetate highly active and stable destruction. Journal of Hazardous Materials, 2021, 401, 123281.	6.5	40
179	Catalytic mechanism and pathways of 1, 2-dichloropropane oxidation over LaMnO3 perovskite: An experimental and DFT study. Journal of Hazardous Materials, 2021, 402, 123473.	6.5	42
180	In situ fabrication of robust three dimensional ordered macroporous Î ³ -MnO2/LaMnO3.15 catalyst for chlorobenzene efficient destruction. Applied Catalysis B: Environmental, 2021, 282, 119565.	10.8	59

#	Article	IF	CITATIONS
181	Effect of the precipitation pH on the characteristics and performance of Co3O4 catalysts in the total oxidation of toluene and propane. Applied Catalysis B: Environmental, 2021, 282, 119566.	10.8	68
182	Environmental Materials beyond and below the Nanoscale: Single-Atom Catalysts. ACS ES&T Engineering, 2021, 1, 157-172.	3.7	88
183	CeCoOx-MNS catalyst derived from three-dimensional mesh nanosheet Co-based metal–organic frameworks for highly efficient catalytic combustion of VOCs. Chemical Engineering Journal, 2021, 405, 126948.	6.6	55
184	Efficient α-MnO2 with (2 1 0) facet exposed for catalytic oxidation of toluene at low temperature: A combined in-situ DRIFTS and theoretical investigation. Chemosphere, 2021, 263, 128103.	4.2	41
185	Improved reactivity for toluene oxidation on MnOx/CeO2-ZrO2 catalyst by the synthesis of cubic-tetragonal interfaces. Applied Surface Science, 2021, 539, 148188.	3.1	43
186	High-efficiency photocatalytic decomposition of toluene over defective InOOH: Promotive role of oxygen vacancies in ring opening process. Chemical Engineering Journal, 2021, 413, 127389.	6.6	36
187	Role of impurity components and pollutant removal processes in catalytic oxidation of o-xylene from simulated coal-fired flue gas. Science of the Total Environment, 2021, 764, 142805.	3.9	13
188	Laser irradiation method to prepare polyethylene porous fiber membrane with ultrahigh xylene gas filtration capacity. Journal of Hazardous Materials, 2021, 407, 124395.	6.5	10
189	A novel viewpoint on the surface adsorbed oxygen and the atom doping in the catalytic oxidation of toluene over low-Pt bimetal catalysts. Applied Catalysis A: General, 2021, 609, 117913.	2.2	19
190	A nanozyme-based enhanced system for total removal of organic mercury and SERS sensing. Journal of Hazardous Materials, 2021, 405, 124642.	6.5	36
191	Theoretical exploration of VOCs removal mechanism by carbon nanotubes through persulfate-based advanced oxidation processes: Adsorption and catalytic oxidation. Journal of Hazardous Materials, 2021, 405, 124684.	6.5	78
192	Unveiling the importance of reactant mass transfer in environmental catalysis: Taking catalytic chlorobenzene oxidation as an example. Chinese Chemical Letters, 2021, 32, 1206-1209.	4.8	24
193	Enhanced catalytic oxidation of VOCs over porous Mn-based mullite synthesized by in-situ dismutation. Journal of Colloid and Interface Science, 2021, 585, 302-311.	5.0	59
194	Polydopamine mediated modification of manganese oxide on melamine sponge for photothermocatalysis of gaseous formaldehyde. Journal of Hazardous Materials, 2021, 407, 124795.	6.5	31
195	Effect of calcination process on performance of 3DOM CeMnO3 catalysts. Journal of Rare Earths, 2021, 39, 1073-1081.	2.5	10
196	Effect of the A-site cation over spinel AMn2O4 (AÂ=ÂCu2+, Ni2+, Zn2+) for toluene combustion: Enhancement of the synergy and the oxygen activation ability. Fuel, 2021, 288, 119700.	3.4	44
197	Facile synthesis λâ€MnO2 spinel for highly effective catalytic oxidation of benzene. Chemical Engineering Journal, 2021, 421, 127828.	6.6	21
198	Efficient defect engineering in Co-Mn binary oxides for low-temperature propane oxidation. Applied Catalysis B: Environmental, 2021, 282, 119512.	10.8	131

#	Article	IF	CITATIONS
199	Deactivation and activation mechanism of TiO2 and rGO/Er3+-TiO2 during flowing gaseous VOCs photodegradation. Applied Catalysis B: Environmental, 2021, 284, 119813.	10.8	41
200	Evaluating the effect of ozone in UV induced skin damage. Toxicology Letters, 2021, 338, 40-50.	0.4	23
201	Synthesis of MnO2 derived from spent lithium-ion batteries via advanced oxidation and its application in VOCs oxidation. Journal of Hazardous Materials, 2021, 406, 124743.	6.5	50
202	Pt/MnO ₂ Nanoflowers Anchored to Boron Nitride Aerogels for Highly Efficient Enrichment and Catalytic Oxidation of Formaldehyde at Room Temperature. Angewandte Chemie - International Edition, 2021, 60, 6377-6381.	7.2	72
203	Highly efficient simultaneous removal of HCHO and elemental mercury over Mn-Co oxides promoted Zr-AC samples. Journal of Hazardous Materials, 2021, 408, 124830.	6.5	32
204	Zn-based metal organic framework derivative with uniform metal sites and hierarchical pores for efficient adsorption of formaldehyde. Chinese Chemical Letters, 2021, 32, 1819-1822.	4.8	21
205	In-situ electro-deposition synthesis of MnOx-NiCo2O4 monolithic catalyst with rich phase interfaces. Chinese Chemical Letters, 2021, 32, 21-24.	4.8	5
206	Dichloromethane catalytic combustion over Co3O4 catalysts supported on MFI type zeolites. Microporous and Mesoporous Materials, 2021, 312, 110599.	2.2	15
207	Influence of oxygen and water content on the formation of polychlorinated organic by-products from catalytic degradation of 1,2-dichlorobenzene over a Pd/ZSM-5 catalyst. Journal of Hazardous Materials, 2021, 403, 123952.	6.5	26
208	Synthesis of α–MnO2–like rod catalyst using YMn2O5 A–site sacrificial strategy for efficient benzene oxidation. Journal of Hazardous Materials, 2021, 403, 123811.	6.5	32
209	Interplay effect on simultaneous catalytic oxidation of NO and toluene over different crystal types of MnO2 catalysts. Proceedings of the Combustion Institute, 2021, 38, 5433-5441.	2.4	20
210	Three-dimensional (3D) hierarchical Mn2O3 catalysts with the highly efficient purification of benzene combustion. Separation and Purification Technology, 2021, 255, 117633.	3.9	21
211	Rationalizing the promotional effect of Mn oxides in benzene combustion using an O 2p-band center descriptor. Chemical Communications, 2021, 57, 4942-4945.	2.2	3
212	A review of Mn-based catalysts for low-temperature NH ₃ -SCR: NO _x removal and H ₂ O/SO ₂ resistance. Nanoscale, 2021, 13, 7052-7080.	2.8	109
213	Effects of Different Copper Species on the Combustion of Dichloromethane over Cu/HZSM-5 Zeolite Nanoporous Catalysts. ACS Applied Nano Materials, 2021, 4, 1733-1742.	2.4	8
214	Oxygen vacancy induced MnO ₂ catalysts for efficient toluene catalytic oxidation. Catalysis Science and Technology, 2021, 11, 6708-6723.	2.1	52
215	Surface In Situ Doping Modification over Mn ₂ O ₃ for Toluene and Propene Catalytic Oxidation: The Effect of Isolated Cu ^{Î+} Insertion into the Mezzanine of Surface MnO ₂ Cladding. ACS Applied Materials & Interfaces, 2021, 13, 2753-2764.	4.0	53
216	Prospective of functionalized nanomaterials in environmental science: A nanotechnological approach. , 2021, , 13-60.		1

ARTICLE IF CITATIONS Advances in Aluminum-Containing Catalysts for the Catalytic Oxidation of Acetone. Hans Journal of 217 0.0 0 Chemical Engineering and Technology, 2021, 11, 178-184. Nanocrystalline Spinel Catalysts for Volatile Organic Compounds Abatement., 2021, , 1-58. Coâ€"Cr bimetallic oxides derived from layered double hydroxides with high catalytic performance for 219 2.1 12 chlorinated aromatics oxidation. Catalysis Science and Technology, 0, , . Boosting the photocatalytic degradation of ethyl acetate by a Z-scheme Auâ€"TiO₂@NH₂-UiO-66 heterojunction with ultrafine Au as an electron mediator. Environmental Science: Nano, 2021, 8, 2542-2553. Photocatalytic reaction mechanisms at a gasâ€"solid interface for typical air pollutant decomposition. 221 5.2 28 Journal of Materials Chemistry A, 2021, 9, 20184-20210. Ternary mixed-oxide synergy effects of nano TiO₂-FexOy-MOk (MÂ=ÂMn, Ce, Co) on α-pinene catalytic oxidation process assisted by nonthermal plasma. Materials Research Express, 2021, 8, 015509. 0.8 Removal mechanism and quantitative control of trichloroethylene in a post-plasma-catalytic system 223 2.1 6 over Mn–Ce/HZSM-5 catalysts. Catalysis Science and Technology, 2021, 11, 3746-3761. A review of confined-structure catalysts in the catalytic oxidation of VOCs: synthesis, 224 2.1 38 characterization, and applications. Ćatalysis Science and Technology, 2021, 11, 5374-5387. 225 Carbon Nanomaterials for Air and Water Remediation., 2021, , 331-365. 1 Enhancement of propane combustion activity over CoO_x catalysts by introducing 1.4 C₂–C₅ diols. New Journal of Chemistry, 2021, 45, 8795-8805. Surface Lattice Oxygen Activation on Sr₂Sb₂O₇ Enhances the 227 Photocatalytic Mineralization of Toluene: from Reactant Activation, Intermediate Conversion to 4.046 Product Desorption. ACS Applied Materials & amp; Interfaces, 2021, 13, 5153-5164. Size and shape effects of MnFe2O4 nanoparticles as catalysts for reductive degradation of dye 3.3 pollutants. Frontiers of Environmental Science and Engineering, 2021, 15, 1. Electric-Field-Driven Nanoparticles Produce Dual-Functional Bipolar Electrodes and Nanoelectrolytic 229 2.8 10 Cells for Water Remediation. Cell Reports Physical Science, 2021, 2, 100299. Effect of different supports on activity of Mn–Ce binary oxides catalysts for toluene combustion. 2.5 Journal of Rare Earths, 2022, 40, 645-651. Pt/MnO 2 Nanoflowers Anchored to Boron Nitride Aerogels for Highly Efficient Enrichment and 231 12 1.6 Catalytic Oxidation of Formaldehyde at Room Temperature. Angewandte Chemie, 2021, 133, 6447-6451. Influence of Alumina Precursor Properties on Cu-Fe Alumina Supported Catalysts for Total Toluene Oxidation as a Model Volatile Organic Air Pollutant. Catalysts, 2021, 11, 252. TiO2 Photocatalysis for the Transformation of Aromatic Water Pollutants into Fuels. Catalysts, 2021, 233 1.6 34 11, 317. Toward the Limitation of Dealloying: Full Spectrum Responsive Ultralow Density Nanoporous Gold 234 for Plasmonic Photocatalytic SERS. ACS Applied Materials & amp; Interfaces, 2021, 13, 7735-7744.

#	Article	IF	CITATIONS
235	Conjugated porous polymers for gaseous toluene adsorption in humid atmosphere. Reactive and Functional Polymers, 2021, 159, 104804.	2.0	14
236	Comparative Investigation on Chlorobenzene Oxidation by Oxygen and Ozone over a MnO _{<i>x</i>} /Al ₂ O ₃ Catalyst in the Presence of SO ₂ . Environmental Science & Technology, 2021, 55, 3341-3351.	4.6	59
237	Enhanced Catalytic Oxidation of Toluene over Manganese Oxide Modified by Lanthanum with a Coral-Like Hierarchical Structure Nanosphere. ACS Applied Materials & Interfaces, 2021, 13, 10089-10100.	4.0	39
238	The effect of carbon monoxide on the oxidation of propane over a glass fiber based platinum catalyst. Kataliz V Promyshlennosti, 2021, 1, 41-46.	0.2	0
239	Spinel Co3O4 oxides-support synergistic effect on catalytic oxidation of toluene. Applied Catalysis A: General, 2021, 614, 118044.	2.2	14
240	Enhanced Catalytic Combustion Performance of Toluene over a Novel Co–CeO _{<i>x</i>} Monolith Catalyst. Energy & Fuels, 2021, 35, 6190-6201.	2.5	17
241	Recent Progress of Thermocatalytic and Photo/Thermocatalytic Oxidation for VOCs Purification over Manganese-based Oxide Catalysts. Environmental Science & amp; Technology, 2021, 55, 4268-4286.	4.6	185
242	Improved catalytic oxidation of propylene glycol methyl ether over Sm–Mn and Sm–Co perovskite-based catalysts prepared by the recycling of spent ternary lithium-ion battery. Environmental Science and Pollution Research, 2021, 28, 38829-38838.	2.7	8
243	Nano-oxides washcoat for enhanced catalytic oxidation activity toward the perovskite-based monolithic catalyst. Environmental Science and Pollution Research, 2021, 28, 37142-37157.	2.7	27
244	Synthesis, characterization and catalytic activity of cryptomelane/montmorillonite composites. Applied Clay Science, 2021, 202, 105977.	2.6	10
245	Characterization and Performance of Ca-Substituted La1â^'xCaxCoO3â^'Î′ Perovskite for Efficient CatalyticÂOxidationÂofÂToluene. Catalysis Letters, 2021, 151, 3323-3333.	1.4	8
246	Trans(Cl)-2,2′-bipyridinedicarbonyldichlororuthenium(II) complex catalyzed oxidation of olefins, aryl hydrocarbons and alcohols in homogeneous phase. Journal of the Indian Chemical Society, 2021, 98, 100012.	1.3	0
247	Combustion of acetylene over the mesoporous CeO2-supported IrFe bimetallic catalysts. Catalysis Today, 2021, 382, 22-33.	2.2	3
248	HCl-Tolerant H _{<i>x</i>} PO ₄ /RuO _{<i>x</i>} –CeO ₂ Catalysts for Extremely Efficient Catalytic Elimination of Chlorinated VOCs. Environmental Science & Technology, 2021, 55, 4007-4016.	4.6	107
249	Total Oxidation of Toluene and Propane over Supported Co ₃ O ₄ Catalysts: Effect of Structure/Acidity of MWW Zeolite and Cobalt Loading. ACS Applied Materials & Interfaces, 2021, 13, 15143-15158.	4.0	22
250	Defective Ultrafine MnO _{<i>x</i>} Nanoparticles Confined within a Carbon Matrix for Low-Temperature Oxidation of Volatile Organic Compounds. Environmental Science & amp; Technology, 2021, 55, 5403-5411.	4.6	89
251	A facile preparation of hausmannite as a high-performance catalyst for toluene combustion. Chinese Journal of Chemical Engineering, 2022, 44, 392-401.	1.7	3
252	Rapid and sensitive detection of 4-ethylbenzaldehyde by a plasmonic nose. Journal Physics D: Applied Physics, 2021, 54, 255306.	1.3	1

#	Article	IF	CITATIONS
253	Flower-like Pt/Fe ₂ O ₃ –CeO ₂ Catalysts for Highly Efficient Low-Temperature Catalytic Oxidation of Toluene. Industrial & Engineering Chemistry Research, 2021, 60, 5471-5481.	1.8	16
255	Enhancement and stabilization of isolated hydroxyl groups via the construction of coordinatively unsaturated sites on surface and subsurface of hydrogenated TiO2 nanotube arrays for photocatalytic complete mineralization of toluene. Journal of Environmental Chemical Engineering, 2021. 9, 105080.	3.3	15
256	Chromic and Fluorescence-Responsive Metal–Organic Frameworks Afforded by N-Amination Modification. ACS Applied Materials & Interfaces, 2021, 13, 20380-20387.	4.0	29
257	Oxidative decomposition of dichloromethane over sulfated iron titanate catalysts: Catalytic performance and reaction mechanism. Applied Catalysis A: General, 2021, 616, 118094.	2.2	8
258	Cu-Co mixed oxide catalysts for the total oxidation of toluene and propane. Catalysis Today, 2022, 384-386, 238-245.	2.2	22
259	Noble-metal-free hydroxyapatite activated by facile mechanochemical treatment towards highly-efficient catalytic oxidation of volatile organic compound. Scientific Reports, 2021, 11, 7512.	1.6	25

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261	Catalytic Combustion of Propane over MnNbO _{<i>x</i>} Composite Oxides: The Promotional Role of Niobium. Industrial & Engineering Chemistry Research, 2021, 60, 6111-6120.	1.8	67
262	Atomically Dispersed Y or La on Birnessite-Type MnO ₂ for the Catalytic Decomposition of Low-Concentration Toluene at Room Temperature. ACS Applied Materials & Interfaces, 2021, 13, 17532-17542.	4.0	31
263	Simulation and optimization of the removal of toluene in air by ozonation with a catalytic open-cell foam. Chemical Engineering Research and Design, 2021, 168, 453-464.	2.7	3
264	Oxygen-Enriched Biomass-Activated Carbon Supported Platinum Nanoparticles as an Efficient and Durable Catalyst for Oxidation in Benzene. ACS Sustainable Chemistry and Engineering, 2021, 9, 7255-7266.	3.2	17
265	Synthesis of manganese ore/Co3O4 composites by sol–gel method for the catalytic oxidation of gaseous chlorobenzene. Journal of Saudi Chemical Society, 2021, 25, 101229.	2.4	17
266	Construction of Cu-Ce interface for boosting toluene oxidation: Study of Cu-Ce interaction and intermediates identified by in situ DRIFTS. Chinese Chemical Letters, 2021, 32, 3435-3439.	4.8	24
267	Ag-Modified ZnO Nanorod Array Fabricated on Polyester Fabric and Its Enhanced Visible-Light Photocatalytic Performance by a Built-in Electric Field and Plasmonic Effect. ACS Omega, 2021, 6, 14078-14089.	1.6	6
268	Electron donation of non-oxide supports boosts O2 activation on nano-platinum catalysts. Nature Communications, 2021, 12, 2741.	5.8	72
269	Oxidative decomposition of chlorobenzene over iron titanate catalysts: The critical roles of oxygen vacancies and adsorption geometries. Applied Catalysis A: General, 2021, 617, 118118.	2.2	14
270	Low-temperature catalytic combustion of benzene over Zr–Mn mixed oxides synthesized by redox-precipitation method. Journal of Materials Science, 2021, 56, 13540-13555.	1.7	6
271	Highly responsive triethylamine vapor sensor based on a perylene diimide-polydiacetylene system via heat-induced tuning of the molecular packing approach. Sensors and Actuators B: Chemical, 2021, 334, 129660.	4.0	12

#	Article	IF	CITATIONS
272	Multi-pollutant control (MPC) of NO and chlorobenzene from industrial furnaces using a vanadia-based SCR catalyst. Applied Catalysis B: Environmental, 2021, 285, 119835.	10.8	54
273	Investigation into the Enhanced Catalytic Oxidation of <i>o</i> -Xylene over MOF-Derived Co ₃ O ₄ with Different Shapes: The Role of Surface Twofold-Coordinate Lattice Oxygen (O _{2f}). ACS Catalysis, 2021, 11, 6614-6625.	5.5	106
274	Identifying environmental hotspots and improvement strategies of vanillin production with life cycle assessment. Science of the Total Environment, 2021, 769, 144771.	3.9	13
275	Convergent ambient sunlight-powered multifunctional catalysis for toluene abatement over in situ exsolution of Mn3O4 on perovskite parent. Chemical Engineering Journal, 2021, 412, 128560.	6.6	28
276	Manganese supported on controlled dealumination Y-zeolite for ozone catalytic oxidation of low concentration toluene at low temperature. Chemosphere, 2021, 271, 129604.	4.2	23
277	Influence of Ce/Nb Molar Ratios on Oxygen-Rich CexNb1-xO4+Î′ Materials for Catalytic Combustion of VOCs in the Process of Polyether Polyol Synthesis. Catalysis Letters, 2022, 152, 523-537.	1.4	13
278	Continuous flow pulsed power plasma reactor for the treatment of aqueous solution containing volatile organic compounds and real pharmaceutical wastewater. Journal of Environmental Management, 2021, 286, 112202.	3.8	25
279	Si-doped Al2O3 nanosheet supported Pd for catalytic combustion of propane: effects of Si doping on morphology, thermal stability, and water resistance. Environmental Science and Pollution Research, 2021, 28, 56480-56490.	2.7	7
280	Cobaltâ€Catalyzed Aerobic Oxidative Cleavage of Alkyl Aldehydes: Synthesis of Ketones, Esters, Amides, and αâ€Ketoamides. Chemistry - A European Journal, 2021, 27, 9737-9741.	1.7	7
281	Accelerated plasma degradation of organic pollutants in milliseconds and examinations by mass spectrometry. Chinese Chemical Letters, 2021, 32, 3457-3457.	4.8	5
282	A Method for the Accurate Quantification of Gas Streams by Online Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2021, 32, 2135-2143.	1.2	1
283	Experimental and Numerical Investigation into the Heat- and Mass-Transfer Processes of <i>n</i> -Butane Adsorption on Activated Carbon. ACS Omega, 2021, 6, 17162-17172.	1.6	2
284	Methane combustion over palladium catalysts with manipulated aggregation on zirconia support. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 765.	0.8	0
285	Efficient catalytic degradation of toluene at a readily prepared Mn-Cu catalyst: Catalytic performance and reaction pathway. Journal of Colloid and Interface Science, 2021, 591, 396-408.	5.0	51
286	Phosphate-assisted synthesis of ultrathin and thermally stable alumina nanosheets as robust Pd support for catalytic combustion of propane. Applied Catalysis B: Environmental, 2021, 286, 119949.	10.8	32
287	Efficient catalytic combustion of toluene at low temperature by tailoring surficial PtO and interfacial Pt-Al(OH)x species. IScience, 2021, 24, 102689.	1.9	24
288	Facile Synthesis of Fluorine Doped Rutile TiO2 Nanorod Arrays for Photocatalytic Removal of Formaldehyde. Catalysis Letters, 2022, 152, 1029-1039.	1.4	13
289	Fabrication of Nanohybrid Spinel@CuO Catalysts for Propane Oxidation: Modified Spinel and Enhanced Activity by Temperature-Dependent Acid Sites. ACS Applied Materials & Interfaces, 2021, 13, 27106-27118.	4.0	30

#	Article	IF	CITATIONS
290	A CeCoO _{<i>x</i>} Core/Nb ₂ O ₅ @TiO ₂ Doubleâ€&hell Nanocage Catalyst Demonstrates High Activity and Water Resistance for Catalytic Combustion of <i>o</i> â€Dichlorobenzene. Chemistry - A European Journal, 2021, 27, 10356-10368.	1.7	7
291	Reaction Behaviors of NO _{<i>x</i>} and Methanol Simultaneous Abatement over a Ceria-Based NH ₃ –SCR Catalyst at Low-Medium Temperatures. Journal of Physical Chemistry C, 2021, 125, 14666-14674.	1.5	3
292	Surface Lattice Oxygen Activation by Nitrogen-Doped Manganese Dioxide as an Effective and Longevous Catalyst for Indoor HCHO Decomposition. ACS Applied Materials & Interfaces, 2021, 13, 26960-26970.	4.0	32
293	Pt-Modulated CuMnO <i>_x</i> Nanosheets as Catalysts for Toluene Oxidation. ACS Applied Nano Materials, 2021, 4, 6637-6647.	2.4	24
294	Morphology Effects of CeO ₂ Nanomaterials on the Catalytic Combustion of Toluene: A Combined Kinetics and Diffuse Reflectance Infrared Fourier Transform Spectroscopy Study. ACS Catalysis, 2021, 11, 7876-7889.	5.5	129
295	Low-temperature catalytic degradation of chlorinated aromatic hydrocarbons over bimetallic Ce-Zr/UiO-66 catalysts. Chemical Engineering Journal, 2021, 414, 128782.	6.6	22
296	Enhanced catalytic activities of MnOx/Co3O4 nanocomposites prepared via MOFs-templated approach for chlorobenzene oxidation. Applied Surface Science, 2021, 551, 149453.	3.1	42
297	Adsorption of volatile organic compounds by mesoporous graphitized carbon: Enhanced organophilicity, humidity resistance, and mass transfer. Separation and Purification Technology, 2021, 264, 118464.	3.9	35
298	Platinized titanium dioxide (Pt/TiO2) as a multi-functional catalyst for thermocatalysis, photocatalysis, and photothermal catalysis for removing air pollutants. Applied Materials Today, 2021, 23, 100993.	2.3	21
299	Insight into the catalytic performance and reaction routes for toluene total oxidation over facilely prepared Mn-Cu bimetallic oxide catalysts. Applied Surface Science, 2021, 550, 149179.	3.1	63
300	Nonplanar Perylene Monoimideâ€Based Fluorescent Film for Enhanced BTX Sensing. Chinese Journal of Chemistry, 2021, 39, 2088-2094.	2.6	3
301	Catalytic activation preparation of nitrogen-doped hierarchical porous bio-char for efficient adsorption of dichloromethane and toluene. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105150.	2.6	28
302	Electrodeposition synthesis of 3D-NiO1-δ flowers grown on Ni foam monolithic catalysts for efficient catalytic ozonation of VOCs. Journal of Catalysis, 2021, 398, 1-13.	3.1	21
303	Impact of toluene poisoning on MnCe/HZSM-5 SCR catalyst. Chemical Engineering Journal, 2021, 414, 128838.	6.6	46
304	"Plurethosome―as Vesicular System for Cutaneous Administration of Mangiferin: Formulative Study and 3D Skin Tissue Evaluation. Pharmaceutics, 2021, 13, 1124.	2.0	10
305	Efficient toluene adsorption/desorption on biochar derived from in situ acid-treated sugarcane bagasse. Environmental Science and Pollution Research, 2021, 28, 62616-62627.	2.7	9
306	An Artificial Olfactory Memory System for Monitoring and Recording of Volatile Organic Compounds. Advanced Materials Technologies, 2021, 6, 2100366.	3.0	23
307	Effect of Carbon Monoxide on the Oxidation of Propane on Pt Glass Fiber Catalyst. Catalysis in Industry, 2021, 13, 239-243.	0.3	0

#	Article	IF	CITATIONS
308	Significant Improvement of Catalytic Performance for Chlorinated Volatile Organic Compound Oxidation over RuO <i>_x</i> Supported on Acid-Etched Co ₃ O ₄ . Environmental Science & Technology, 2021, 55, 10734-10743.	4.6	97
309	N2O inhibition by toluene over Mn-Fe spinel SCR catalyst. Journal of Hazardous Materials, 2021, 414, 125468.	6.5	38
310	Adsorption Followed by Plasma Assisted Catalytic Conversion of Toluene into CO2 on Hopcalite in an Air Stream. Catalysts, 2021, 11, 845.	1.6	4
311	Adsorbing Volatile Organic Chemicals by Soluble Triazine-Based Dendrimers under Ambient Conditions with the Adsorption Capacity of Pyridine up to 946.2 mg/g. Molecules, 2021, 26, 4862.	1.7	6
312	Optimized Synthesis Routes of MnOx-ZrO2 Hybrid Catalysts for Improved Toluene Combustion. Catalysts, 2021, 11, 1037.	1.6	7
313	Catalytic performance and intermediates identification of trichloroethylene deep oxidation over Ru/3DOM SnO2 catalysts. Journal of Catalysis, 2021, 400, 310-324.	3.1	26
314	Preparation and characterization of manganese oxides supported on functionalized halloysite nanotubes with enhanced catalytic oxidation for toluene. Applied Clay Science, 2021, 209, 106147.	2.6	6
315	A new strategy to improve catalytic activity for chlorinated volatile organic compounds oxidation over cobalt oxide: Introduction of strontium carbonate. Journal of the Indian Chemical Society, 2021, 98, 100116.	1.3	3
316	Nanotubular OMS-2 Supported Single-Atom Platinum Catalysts Highly Active for Benzene Oxidation. Journal of Physical Chemistry C, 2021, 125, 17696-17708.	1.5	22
317	Facile synthesis of Pt–Ce0.63Zr0·37O2–Y catalysts and the application in catalytic oxidation of toluene. Chemosphere, 2021, 276, 130207.	4.2	9
318	A critical innovation of photocatalytic degradation for toxic chemicals and pathogens in air. Journal of Industrial and Engineering Chemistry, 2021, 100, 19-39.	2.9	15
319	Promoting Effect of Palladium on ZnAl2O4-Supported Catalysts Based on Cobalt or Copper Oxide on the Activity for the Total Propene Oxidation. Materials, 2021, 14, 4814.	1.3	2
320	Rhenium – A Tuneable Player in Tailored Hydrogenation Catalysis. European Journal of Inorganic Chemistry, 2021, 2021, 4043-4065.	1.0	24
321	Engineering oxygen vacancies via amorphization in conjunction with W-doping as an approach to boosting catalytic properties of Pt/Fe-W-O for formaldehyde oxidation. Journal of Hazardous Materials, 2021, 416, 126224.	6.5	18
322	Facile homogeneous precipitation method to prepare MnO2 with high performance in catalytic oxidation of ethyl acetate. Chemical Engineering Journal, 2021, 417, 129246.	6.6	35
323	Fabricating a mechanochromic AIE luminogen into a wearable sensor for volatile organic compound (VOC) detection. Dyes and Pigments, 2021, 192, 109393.	2.0	25
324	Simple Thermocatalytic Oxidation Degradation of VOCs. Catalysis Letters, 2022, 152, 1801-1818.	1.4	13
325	Effect of preparation method on the performance of porous RuOx/Co3O4 catalysts for 1, 2-dichloroethane oxidation. Applied Catalysis A: General, 2021, 624, 118300.	2.2	19

#	Article	IF	CITATIONS
326	Activity enhancement of acetate precursor prepared on MnOx-CeO2 catalyst for low-temperature NH3-SCR: Effect of gaseous acetone addition. Chinese Chemical Letters, 2021, 32, 2509-2512.	4.8	14
327	Enhanced photodegradation of toxic volatile organic pollutants using Ni-doped graphitic carbon nitride under natural solar light. Solar Energy, 2021, 224, 18-26.	2.9	18
328	Targeted Delivery of Drugs and Genes Using Polymer Nanocarriers for Cancer Therapy. International Journal of Molecular Sciences, 2021, 22, 9118.	1.8	55
329	Insights into Different Reaction Behaviors of Propane and CO Oxidation over Pt/CeO ₂ and Pt/Nb ₂ O ₅ : The Crucial Roles of Support Properties. Journal of Physical Chemistry C, 2021, 125, 19301-19310.	1.5	21
330	C-dot doping for enhanced catalytic performance of TiO2/5A for toluene degradation in non-thermal plasma-catalyst system. Environmental Science and Pollution Research, 2022, 29, 2480-2492.	2.7	5
331	Highly efficient adsorptive removal of toluene using silicon-modified activated carbon with improved fire resistance. Journal of Hazardous Materials, 2021, 415, 125753.	6.5	28
332	Research progress in catalytic oxidation of volatile organic compound acetone. Journal of Environmental Chemical Engineering, 2021, 9, 105650.	3.3	36
333	Unraveling the decisive role of surface CeO2 nanoparticles in the Pt-CeO2/MnO2 hetero-catalysts for boosting toluene oxidation: Synergistic effect of surface decorated and intrinsic O-vacancies. Chemical Engineering Journal, 2021, 418, 129399.	6.6	132
334	Co ₃ O ₄ Nanoparticle-Decorated SiO ₂ Nanotube Catalysts for Propane Oxidation. ACS Applied Nano Materials, 2021, 4, 8937-8949.	2.4	17
335	Effect of Acid Treatment on the Catalytic Activity and Mechanical Stability of SmMnO 3 /Cordierite Monolithic Catalysts. ChemistrySelect, 2021, 6, 7845-7854.	0.7	3
336	Elimination or Removal of Ethylene for Fruit and Vegetable Storage via Low-Temperature Catalytic Oxidation. Journal of Agricultural and Food Chemistry, 2021, 69, 10419-10439.	2.4	9
337	Removal of ethyl acetate in air by using different types of corona discharges generated in a honeycomb monolith structure coated with Pd/γ-alumina. Journal of Hazardous Materials, 2021, 416, 126162.	6.5	16
338	Boosting the Catalytic Performance of CeO ₂ in Toluene Combustion via the Ce–Ce Homogeneous Interface. Environmental Science & Technology, 2021, 55, 12630-12639.	4.6	71
339	Novel cryptomelane nanosheets for the superior catalytic combustion of oxygenated volatile organic compounds. Journal of Hazardous Materials, 2021, 417, 126111.	6.5	9
340	Conjugated polymer–zeolite hybrids for robust gas sensors: Effect of zeolite surface area on NO2 sensing ability. Chemical Engineering Journal, 2021, 420, 129588.	6.6	28
341	Catalytic Oxidation of CO and Benzene over Metal Nanoparticles Loaded on Hierarchical MFI Zeolite. Molecules, 2021, 26, 5893.	1.7	3
342	Structural Insight into La0.5Ca0.5Mn0.5Co0.5O3 Decomposition in the Methane Combustion Process. Nanomaterials, 2021, 11, 2283.	1.9	3
343	Formation of hierarchical pore structure OMS-2 by etching with H2C2O4 and its excellent catalytic performance for toluene oxidation: Enhanced lattice oxygen activity. Microporous and Mesoporous Materials, 2021, 324, 111301.	2.2	10

#	Article	IF	CITATIONS
344	Achieving toluene efficient mineralization over K/É'-MnO2 via oxygen vacancy modulation. Journal of Colloid and Interface Science, 2021, 598, 238-249.	5.0	36
345	Adjacent single-atom irons boosting molecular oxygen activation on MnO2. Nature Communications, 2021, 12, 5422.	5.8	114
346	Platinum Group Metals: A Review of Resources, Production and Usage with a Focus on Catalysts. Resources, 2021, 10, 93.	1.6	71
347	Hierarchical MnO _{<i>x</i>} /Co ₃ O ₄ Nanoarrays on Ni Foam for Catalytic Oxidation of Volatile Organic Compounds. ACS Applied Nano Materials, 2021, 4, 9322-9332.	2.4	26
348	Promotional effect of Cu additive for the selective catalytic oxidation of n-butylamine over CeZrO catalyst. Chinese Chemical Letters, 2022, 33, 3065-3072.	4.8	8
349	Ozone-assisted oxidation of methyl ethyl ketone over mesoporous MnOx/γ-Al2O3 catalysts. Materials Letters, 2021, 299, 130105.	1.3	4
350	Engineering Co3+-rich crystal planes on Co3O4 hexagonal nanosheets for CO and hydrocarbons oxidation with enhanced catalytic activity and water resistance. Chemical Engineering Journal, 2021, 420, 130448.	6.6	34
351	Synergistic Elimination of NO _{<i>x</i>} and Chlorinated Organics over VO _{<i>x</i>} /TiO ₂ Catalysts: A Combined Experimental and DFT Study for Exploring Vanadate Domain Effect. Environmental Science & Technology, 2021, 55, 12862-12870.	4.6	11
352	Insights into flower-like Al2O3 spheres with rich unsaturated pentacoordinate Al3+ sites stabilizing Ru-CeOx for propane total oxidation. Applied Catalysis B: Environmental, 2021, 292, 120171.	10.8	47
353	In-situ growth of defect-enriched NiO film on nickel foam (NF@NiO) monolithic catalysts for ozonation of gaseous toluene. Journal of Alloys and Compounds, 2022, 893, 162160.	2.8	11
354	Confined Growth of Cu-Doped CeO ₂ Nanostructures in Boron-Rich Carbon Frameworks for Acetone Oxidation. ACS Applied Nano Materials, 2021, 4, 10275-10286.	2.4	3
356	Unraveling the effects of potassium incorporation routes and positions on toluene oxidation over α-MnO2 nanorods: Based on experimental and density functional theory (DFT) studies. Journal of Colloid and Interface Science, 2021, 598, 324-338.	5.0	87
357	Low-temperature degradation of toluene over Ag-MnO _x -ACF composite catalyst. Environmental Technology (United Kingdom), 2023, 44, 647-658.	1.2	1
358	Metal-organic framework material supported Pt nanoclusters as a bifunctional catalyst for complete elimination of HCHO at ambient conditions. Applied Surface Science, 2022, 572, 151360.	3.1	4
359	Density functional theory study on the enhanced adsorption mechanism of gaseous pollutants on Al-doped Ti2CO2 monolayer. Sustainable Materials and Technologies, 2021, 29, e00294.	1.7	4
360	Mechanistic insights into and modeling the effects of relative humidity on low-concentration VOCs adsorption on hyper-cross-linked polymeric resin by inverse gas chromatography. Journal of Hazardous Materials, 2021, 418, 126335.	6.5	9
361	New insight into toluene adsorption mechanism of melamine urea-formaldehyde resin based porous carbon: Experiment and theory calculation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127600.	2.3	11
362	A novel removal strategy of gaseous o-chlorotoluene with UV-activated persulfate sodium in a lab-scale bubble reactor. Chemical Engineering Research and Design, 2021, 153, 37-46.	2.7	1

#	Article	IF	CITATIONS
363	Oriented growth of Î^MnO2 nanosheets over core-shell Mn2O3@Î^MnO2 catalysts: An interface-engineered effects for enhanced low-temperature methanol oxidation. Molecular Catalysis, 2021, 514, 111847.	1.0	8
364	Study on mechanism of low-temperature oxidation of n-hexanal catalysed by 2D ultrathin Co3O4 nanosheets. Nano Research, 2022, 15, 1660-1671.	5.8	17
365	Facile preparation of porous hollow Co Mn3-O4 normal-reverse coexisted spinel for toluene oxidation. Journal of Alloys and Compounds, 2022, 892, 162185.	2.8	11
366	Effect of Cu/Co ratio in CuaCo1â~'aOx (aÂ=Â0.1, 0.2, 0.4, 0.6) flower structure on its surface properties and catalytic performance for toluene oxidation. Journal of Colloid and Interface Science, 2021, 599, 404-415.	5.0	28
367	Pt–CeO2-based composites in environmental catalysis: A review. Applied Catalysis B: Environmental, 2021, 295, 120286.	10.8	85
368	Fabricating M/Al2O3/cordierite (MÂ=ÂCr, Mn, Fe, Co, Ni and Cu) monolithic catalysts for ethyl acetate efficient oxidation: Unveiling the role of water vapor and reaction mechanism. Fuel, 2021, 303, 121244.	3.4	37
369	The structural evolution of MnOx with calcination temperature and their catalytic performance for propane total oxidation. Applied Surface Science, 2021, 565, 150596.	3.1	17
370	Photochemical oxidation of o-dichlorobenzene in aqueous solution by hydroxyl radicals from nitrous acid. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 420, 113503.	2.0	1
371	Boosting the surface oxygen activity for high performance Iron-based perovskite oxide. Science of the Total Environment, 2021, 795, 148904.	3.9	11
372	Structure and reactive properties of Nb-impregnated two-dimensional pillared MWW zeolites for total oxidation of volatile organic compounds. Microporous and Mesoporous Materials, 2021, 327, 111425.	2.2	1
373	Performance of toluene oxidation over MnCe/HZSM-5 catalyst with the addition of NO and NH3. Applied Surface Science, 2021, 567, 150836.	3.1	22
374	Triple combination of natural microbial action, etching, and gas foaming to synthesize hierarchical porous carbon for efficient adsorption of VOCs. Environmental Research, 2021, 202, 111687.	3.7	17
375	W O bond shortening by doping of first-row transition metal ions that enhances its catalytic potency. Applied Surface Science, 2021, 567, 150834.	3.1	3
376	Chemical surface modification of beaded activated carbon: A strategy to inhibit heel accumulation from VOC. Journal of Industrial and Engineering Chemistry, 2021, 103, 205-215.	2.9	4
377	An investigation on catalytic performance and reaction mechanism of RuMn/meso-TiO2 derived from RuMn intermetallic compounds for methyl ethyl ketone oxidation. Applied Catalysis B: Environmental, 2021, 296, 120361.	10.8	16
378	Metal organic framework-templated fabrication of exposed surface defect-enriched Co3O4 catalysts for efficient toluene oxidation. Journal of Colloid and Interface Science, 2021, 603, 695-705.	5.0	42
379	Studies of sulfur poisoning process via ammonium sulfate on MnO2/γ-Al2O3 catalyst for catalytic combustion of toluene. Applied Catalysis B: Environmental, 2021, 298, 120595.	10.8	32
380	Catalytic deep degradation of Cl-VOCs with the assistance of ozone at low temperature over MnO2 catalysts. Chemical Engineering Journal, 2021, 426, 130814.	6.6	21

#	Article	IF	CITATIONS
381	Different roles of MoO3 and Nb2O5 promotion in short-chain alkane combustion over Pt/ZrO2 catalysts. Chinese Journal of Catalysis, 2021, 42, 2287-2295.	6.9	24
382	Regulation of oxygen vacancies in cobalt-cerium oxide catalyst for boosting decontamination of VOCs by catalytic oxidation. Separation and Purification Technology, 2021, 277, 119505.	3.9	43
383	Total oxidation of propane over Co3O4-based catalysts: Elucidating the influence of Zr dopant. Applied Catalysis B: Environmental, 2021, 298, 120606.	10.8	78
384	Simulated solar light driven photothermal catalytic purification of toluene over iron oxide supported single atom Pt catalyst. Applied Catalysis B: Environmental, 2021, 298, 120612.	10.8	54
385	Enhancement of toluene removal over α@δ-MnO2 composites prepared via one-pot by modifying the molar ratio of KMnO4 to MnSO4·H2O. Applied Surface Science, 2021, 568, 150972.	3.1	19
386	Synergistic effect of tunable oxygen-vacancy defects and graphene on accelerating the photothermal degradation of methanol over Co3O4/rGO nanocomposites. Chemical Engineering Journal, 2021, 425, 131658.	6.6	42
387	Update on volatile organic compound (VOC) source profiles and ozone formation potential in synthetic resins industry in China. Environmental Pollution, 2021, 291, 118253.	3.7	17
388	Light-induced secondary hydroxyl defects in Sr1-xSn(OH)6 enable sustained and efficient photocatalytic toluene mineralization. Chemical Engineering Journal, 2022, 427, 131764.	6.6	15
389	Regulation of the reaction pathway to design the high sulfur/coke-tolerant Ce-based catalysts for decomposing sulfur-containing VOCs. Chemical Engineering Journal, 2022, 429, 132473.	6.6	12
390	In-situ regulation of acid sites on Mn-based perovskite@mullite composite for promoting catalytic oxidation of chlorobenzene. Journal of Colloid and Interface Science, 2022, 606, 1866-1873.	5.0	25
391	Synergistic effect for simultaneously catalytic ozonation of chlorobenzene and NO over MnCoO catalysts: Byproducts formation under practical conditions. Chemical Engineering Journal, 2022, 427, 130929.	6.6	21
392	Deep oxidation of gaseous formaldehyde at room-temperature by a durable catalyst formed through the controlled addition of potassium to platinum supported on waste eggshell. Chemical Engineering Journal, 2022, 428, 131177.	6.6	41
393	Catalytic enhancement of small sizes of CeO2 additives on Ir/Al2O3 for toluene oxidation. Applied Surface Science, 2022, 571, 151200.	3.1	23
394	Catalytic ozonation of VOCs at low temperature: A comprehensive review. Journal of Hazardous Materials, 2022, 422, 126847.	6.5	146
395	Evidence of the dominant role of particle size in controlling the dynamic adsorption breakthrough behavior of gaseous benzene in a microporous carbon bed system. Chemical Engineering Journal, 2022, 427, 130977.	6.6	15
396	Understanding A-site tuning effect on formaldehyde catalytic oxidation over La-Mn perovskite catalysts. Journal of Hazardous Materials, 2022, 422, 126931.	6.5	31
397	Promote the activation and ring opening of intermediates for stable photocatalytic toluene degradation over Zn-Ti-LDH. Journal of Colloid and Interface Science, 2022, 606, 1435-1444.	5.0	29
398	Thermocatalytic oxidation of gaseous benzene by a titanium dioxide supported platinum catalyst. Chemical Engineering Journal, 2022, 428, 131090.	6.6	21

#	Article	IF	CITATIONS
399	Synergistic effects in Mn-Co mixed oxide supported on cordierite honeycomb for catalytic deep oxidation of VOCs. Journal of Environmental Sciences, 2022, 112, 231-243.	3.2	37
400	Unique insights into photocatalytic VOCs oxidation over WO3/carbon dots nanohybrids assisted by water activation and electron transfer at interfaces. Journal of Hazardous Materials, 2022, 423, 127134.	6.5	31
401	One-step fabrication of Pd-embedded hierarchically porous carbon micro-spheres for formaldehyde removal under mild conditions. New Journal of Chemistry, 2021, 45, 6904-6913.	1.4	0
402	Synthesis of a light-harvesting ruthenium porphyrin complex substituted with BODIPY units. Implications for visible light-promoted catalytic oxidations. New Journal of Chemistry, 2021, 45, 4977-4985.	1.4	9
403	Facial controlled synthesis of Pt/MnO2 catalysts with high efficiency for VOCs combustion. RSC Advances, 2021, 11, 16547-16556.	1.7	13
404	Solar-light-triggered regenerative adsorption removal of styrene by silver nanoparticles incorporated in metal–organic frameworks. Environmental Science: Nano, 2021, 8, 543-553.	2.2	16
405	Key intermediates from simultaneous removal of NO _{<i>x</i>} and chlorobenzene over a V ₂ O ₅ –WO ₃ /TiO ₂ catalyst: a combined experimental and DFT study. Catalysis Science and Technology, 2021, 11, 7260-7267.	2.1	9
406	Density functional theory investigation on selective adsorption of VOCs on borophene. Chinese Chemical Letters, 2021, 32, 2803-2806.	4.8	46
407	Nano-architectonics for coordination assemblies at interfacial media. Advances in Inorganic Chemistry, 2020, 76, 199-228.	0.4	4
408	Toluene oxidation over monolithic MnOx/La-Al2O3 catalyst prepared by a CTAB-assisted impregnation method. Applied Surface Science, 2020, 526, 146714.	3.1	30
409	Distribution and emission of speciated volatile organic compounds from a coal-fired power plant with ultra-low emission technologies. Journal of Cleaner Production, 2020, 264, 121686.	4.6	26
410	Synthesis, characterization and catalytic performance of nanocrystalline Co3O4 towards propane combustion: Effects of small molecular carboxylic acids. Journal of Solid State Chemistry, 2020, 292, 121712.	1.4	12
411	Aerobic Acylarylation of $\hat{I}\pm, \hat{I}^2$ -Unsaturated Amides with Aldehydes. Organic Letters, 2020, 22, 4294-4299.	2.4	16
412	Enhanced Photocatalytic VOCs Mineralization via Special Ga-O-H Charge Transfer Channel in α-Ga ₂ O ₃ /MgAl-LDH Heterojunction. ACS ES&T Engineering, 2021, 1, 501-511.	3.7	32
413	Visible-light-induced aerobic oxidative desulfurization of 2-mercaptobenzimidazoles <i>via</i> a sulfinyl radical. Green Chemistry, 2020, 22, 5594-5598.	4.6	16
414	Preoxidation-assisted nitrogen enrichment strategy to decorate porous carbon spheres for catalytic adsorption/oxidation of methyl mercaptan. RSC Advances, 2020, 10, 37644-37656.	1.7	4
415	Conversion of volatile organic compounds in a twin surface dielectric barrier discharge. Plasma Sources Science and Technology, 2020, 29, 114003.	1.3	20
416	Facile fabrication of functional cellulose paper with high-capacity immobilization of Ag nanoparticles for catalytic applications for tannery wastewater. Journal of Leather Science and Engineering, 2020, 2, .	2.7	27

#	Article	IF	CITATIONS
417	Catalytic and Photothermo-catalytic Applications of TiO2-CoOx Composites. Journal of Photocatalysis, 2020, 1, 3-15.	0.4	9
418	Insight Into the Role of Ceria on OMS-2 and OL Materials for Catalytic Degradation of Toluene. Frontiers in Environmental Chemistry, 2020, 1, .	0.7	2
419	Atomically dispersed Pd sites on Ti-SBA-15 for efficient catalytic combustion of typical gaseous VOCs. Environmental Science: Nano, 2021, 8, 3735-3745.	2.2	11
420	Single-Atom (Iron-Based) Catalysts: Synthesis and Applications. Chemical Reviews, 2021, 121, 13620-13697.	23.0	136
421	Porous metal–organic framework-based filters: Synthesis methods and applications for environmental remediation. Chemical Engineering Journal, 2022, 430, 133160.	6.6	36
422	Insight into the environmental monitoring and source apportionment of volatile organic compounds (VOCs) in various functional areas. Air Quality, Atmosphere and Health, 2022, 15, 1121-1131.	1.5	5
423	The Effect of Water on the 2â€Propanol Oxidation Activity of Coâ€6ubstituted LaFe _{1â^x} Co _x O ₃ Perovskites. Chemistry - A European Journal, 2021, 27, 17127-17144.	1.7	6
424	Zeolite-Based Materials for the Catalytic Oxidation of VOCs: A Mini Review. Frontiers in Chemistry, 2021, 9, 751581.	1.8	17
425	Assessment of multiple environmental factors on the adsorptive and photocatalytic removal of gaseous formaldehyde by a nano-TiO2 colloid: Experimental and simulation studies. Journal of Colloid and Interface Science, 2022, 608, 1769-1781.	5.0	15
426	Photocatalytic Air Purification Using Functional Polymeric Carbon Nitrides. Advanced Science, 2021, 8, e2102376.	5.6	24
427	High Selectivity to HCl for the Catalytic Removal of 1,2-Dichloroethane Over RuP/3DOM WO _{<i>x</i>} : Insights into the Effects of P-Doping and H ₂ O Introduction. Environmental Science & Technology, 2021, 55, 14906-14916.	4.6	33
428	Recent Advances in the Catalytic Treatment of Volatile Organic Compounds: A Review Based on the Mixture Effect. Catalysts, 2021, 11, 1218.	1.6	20
429	Bivalent copper oligopyrocatecholate as a novel heterogeneous catalyst for the oxidative degradation of mercaptan in caustic solution: Synthesis, characterization, and kinetic study. Environmental Research, 2022, 207, 112171.	3.7	2
430	Thermocatalytic oxidation of a three-component mixture of volatile organic compounds by a titanium dioxide-supported platinum catalyst. Journal of Cleaner Production, 2021, 325, 129279.	4.6	13
431	A Study on the Removal of Benzene and the Properties of Catalysts Prepared by Framework Substitution of Copper and Manganese in ZSM-5. Journal of Korean Society for Atmospheric Environment, 2019, 35, 625-635.	0.2	0
432	Tunable metal-support interaction of Pt/CeO2 catalyst via surfactant-assisted strategy: Insight into the total oxidation of CO and toluene. Journal of Hazardous Materials, 2022, 424, 127601.	6.5	23
433	Realizing a redox-robust Ag/MnO2 catalyst for efficient wet catalytic ozonation of S-VOCs: Promotional role of Ag(0)/Ag(I)-Mn based redox shuttle. Applied Catalysis B: Environmental, 2022, 303, 120881.	10.8	43
434	Mn(CeZr)Ox chelation-induced synthesis and its hydrothermal aging characteristics for catalytic abatement of toluene. Chemosphere, 2022, 288, 132662.	4.2	6

#	ARTICLE	IF	CITATIONS
435	Low-Temperature Heterogeneous Oxidation Catalysis and Molecular Oxygen Activation. Catalysis Reviews - Science and Engineering, 2023, 65, 239-425.	5.7	26
436	Mechanochemically Prepared Co3O4-CeO2 Catalysts for Complete Benzene Oxidation. Catalysts, 2021, 11, 1316.	1.6	14
437	Investigation into the Phase–Activity Relationship of MnO ₂ Nanomaterials toward Ozoneâ€Assisted Catalytic Oxidation of Toluene. Small, 2021, 17, e2103052.	5.2	51
438	Hydrotalcite-assisted rapid synthesis of HKUST-1 toward efficient benzene capture. AIP Advances, 2020, 10, 125311.	0.6	3
439	Photocatalytic oxidation mechanism of Gas-Phase VOCs: Unveiling the role of holes, •OH and •O2â^'. Chemical Engineering Journal, 2022, 430, 132766.	6.6	51
440	Recent progress in single-atom alloys: Synthesis, properties, and applications in environmental catalysis. Journal of Hazardous Materials, 2022, 424, 127427.	6.5	39
441	Energy-balanced and effective adsorption-catalytic multilayer bed system for removal of volatile organic compounds. Chemical Engineering Journal, 2022, 431, 133388.	6.6	6
442	Discriminating BTX Molecules by the Nonselective Metal Oxide Sensor-Based Smart Sensing System. ACS Sensors, 2021, 6, 4167-4175.	4.0	19
443	Hydrogen-Bonding-Mediated Molecular Vibrational Suppression for Enhancing the Fluorescence Quantum Yield Applicable for Visual Phenol Detection. ACS Applied Materials & Interfaces, 2021, 13, 54339-54347.	4.0	6
444	The positive effect of water on acetaldehyde oxidation depended on the reaction temperature and MnO2 structure. Applied Catalysis B: Environmental, 2022, 303, 120886.	10.8	23
445	Facet control of manganese oxides with diverse redox abilities and acidities for catalytically removing hazardous 1,2-dichloroethane. Materials Advances, 2022, 3, 1101-1114.	2.6	1
446	Adsorption and desorption mechanism of aromatic VOCs onto porous carbon adsorbents for emission control and resource recovery: recent progress and challenges. Environmental Science: Nano, 2022, 9, 81-104.	2.2	35
447	Synthesis of Rod-Like Co3O4 Catalyst Derived from Co-MOFs with Rich Active Sites for Catalytic Combustion of Toluene. Catalysis Surveys From Asia, 2022, 26, 92-103.	1.0	2
448	Novel Vanadia/meso-Co ₃ O ₄ catalysts for the conversion of benzene–toluene–xylene to environmental friendly components via catalytic oxidation. Environmental Technology (United Kingdom), 2023, 44, 1531-1548.	1.2	2
449	Reheat treatment under vacuum induces pre-calcined α-MnO2 with oxygen vacancy as efficient catalysts for toluene oxidation. Chemosphere, 2022, 289, 133081.	4.2	24
450	Functionalized Activated Carbon for Competing Adsorption of Volatile Organic Compounds and Water. ACS Applied Materials & amp; Interfaces, 2021, 13, 56510-56518.	4.0	31
451	Insights into the promotion mechanism of ceria-zirconia solid solution to ethane combustion over Pt-based catalysts. Journal of Catalysis, 2022, 405, 129-139.	3.1	18
452	The Influence of Precursor on the Preparation of CeO2 Catalysts for the Total Oxidation of the Volatile Organic Compound Propane. Catalysts, 2021, 11, 1461.	1.6	5

#	Article	IF	CITATIONS
453	Carbon/chlorinate deposition on MnOx-CeO2 catalyst in chlorobenzene combustion: The effect of SCR flue gas. Chemical Engineering Journal, 2022, 433, 133552.	6.6	28
454	Designed preparation of nano rod shaped CeO2-MnO catalysts with different Ce/Mn ratios and its highly efficient catalytic performance for chlorobenzene complete oxidation: New insights into structure–activity correlations. Chemical Engineering Journal, 2022, 433, 133788.	6.6	39
455	Hierarchical architectures of ZSM-5 with controllable mesoporous and their particular adsorption/desorption performance for VOCs. Journal of Environmental Chemical Engineering, 2022, 10, 106868.	3.3	11
456	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. Advanced Functional Materials, 2022, 32, 2108381.	7.8	51
457	Theoretical study of structure sensitivity on Au doped CeO2 surfaces for formaldehyde oxidation: The effect of crystal planes and Au doping. Chemical Engineering Journal, 2022, 433, 133599.	6.6	7
458	Nanoporous Asphalt-Based Activated Carbon Prepared from Emulsified Asphalt and Graphene Oxide as High-Thermal-Conducting Adsorbers for <i>n</i> -Hexane Vapor Recovery. ACS Applied Nano Materials, 2021, 4, 12453-12460.	2.4	12
459	Reactive adsorption and catalytic oxidation of gaseous formaldehyde at room temperature by a synergistic copper-magnesium bimetal oxide biochar composite. Chemical Engineering Journal, 2022, 433, 133497.	6.6	22
460	Promotion mechanism of CuMn2O4 modification with NaOH on toluene oxidation: Boosting the ring-opening of benzoate. Fuel, 2022, 314, 122747.	3.4	10
461	Interface-Enhanced Oxygen Vacancies of CoCuO _{<i>x</i>} Catalysts In Situ Grown on Monolithic Cu Foam for VOC Catalytic Oxidation. Environmental Science & Technology, 2022, 56, 1905-1916.	4.6	83
462	Structured cobalt–manganese oxides on SiC nano-whisker modified SiC foams for catalytic combustion of toluene. Chemical Engineering Research and Design, 2022, 177, 659-669.	2.7	5
463	Photocatalytic reaction mechanisms at the gas–solid interface for environmental and energy applications. Catalysis Science and Technology, 2021, 11, 7807-7839.	2.1	12
464	Oxygen Vacancy-Governed Opposite Catalytic Performance for C ₃ H ₆ and C ₃ H ₈ Combustion: The Effect of the Pt Electronic Structure and Chemisorbed Oxygen Species. Environmental Science & Technology, 2022, 56, 3245-3257.	4.6	44
465	Copper-cobalt strong interaction to improve photothermocatalytic performance of cobalt-copper oxides supported on copper foam for toluene oxidation. Chemical Engineering Journal, 2022, 434, 134618.	6.6	23
466	Polythiophene hybrid film with zirconium–porphyrin metal–organic framework for improved charge carrier transport and NO2 gas sensing. Materials Chemistry and Physics, 2022, 278, 125661.	2.0	8
467	Mesoporous Co3O4 with large specific surface area derived from MCM-48 for catalytic oxidation of toluene. Journal of Solid State Chemistry, 2022, 307, 122802.	1.4	6
468	Combining bi-functional Pt/USY and electromagnetic induction for rapid in-situ adsorption-combustion cycling of gaseous organic pollutant. Journal of Hazardous Materials, 2022, 426, 128097.	6.5	6
469	Bifunctional Mn2+ grafted Ultra-small TiO2 nanoparticles on carbon cloth with efficient toluene degradation in a continuous flow reactor. Chemical Engineering Science, 2022, 250, 117389.	1.9	3
470	Tuning Til´+-VoÂPtl´+ interfaces over Pt/TiO2 catalysts for efficient photocatalytic oxidation of toluene. Chemical Engineering Journal, 2022, 431, 134209.	6.6	16

#	Article	IF	CITATIONS
471	Pt loaded manganese oxide nanoarray-based monolithic catalysts for catalytic oxidation of acetone. Chemical Engineering Journal, 2022, 432, 134397.	6.6	25
472	A novel strategy to adjust the oxygen vacancy of CuO/MnO2 catalysts toward the catalytic oxidation of toluene. Fuel, 2022, 312, 122975.	3.4	27
473	In situ DRIFTS combined with GC–MS to identify the catalytic oxidation process of dibenzofuran over activated carbon-supported transition metals oxide catalysts. Fuel, 2022, 312, 122492.	3.4	4
474	Enhancing the interaction between Mn and Ce oxides supported on fly ash with organic acid ligands interface modification for effective VOC removal: A combined experimental and DFTÂ+ÂU study. Fuel, 2022, 313, 123043.	3.4	14
475	Achieving acetone efficient deep decomposition by strengthening reactants adsorption and activation over difunctional Au(OH)Kx/hierarchical MFI catalyst. Journal of Colloid and Interface Science, 2022, 612, 504-515.	5.0	0
476	Enhanced low-temperature catalytic performance for toluene combustion of CeO2-supported Pt-Ir alloy catalysts. Applied Surface Science, 2022, 580, 152278.	3.1	28
477	An isotopic strategy to investigate the role of water vapor in the oxidation of 1,2-dichloroethane over the Ru/WO3 or Ru/TiO2 catalyst. Applied Catalysis B: Environmental, 2022, 305, 121037.	10.8	35
478	Oxygen Vacancies Enriched Nb-WO _X Supported Ru for Polychlorinated Aromatics Oxidation:Reaction Mechanism Exploration. SSRN Electronic Journal, 0, , .	0.4	0
479	Influence of Co/Fe molar ratio on hydrotalcite catalysts prepared with or without microwave. Journal of Solid State Chemistry, 2022, 309, 122943.	1.4	5
480	Insights into the effect of flue gas on synergistic elimination of toluene and NO over V2O5-MoO3(WO3)/TiO2 catalysts. Chemical Engineering Journal, 2022, 435, 134914.	6.6	26
481	Advances of manganese-oxides-based catalysts for indoor formaldehyde removal. Green Energy and Environment, 2023, 8, 626-653.	4.7	15
482	Noble Metal Singleâ€Atom Catalysts for the Catalytic Oxidation of Volatile Organic Compounds. ChemSusChem, 2022, 15, .	3.6	13
483	A critical review on surface-modified nano-catalyst application for the photocatalytic degradation of volatile organic compounds. Environmental Science: Nano, 2022, 9, 61-80.	2.2	43
484	Colloidal Platinum–Copper Nanocrystal Alloy Catalysts Surpass Platinum in Low-Temperature Propene Combustion. Journal of the American Chemical Society, 2022, 144, 1612-1621.	6.6	24
485	Application of MCM-48 with large specific surface area for VOCs elimination: synthesis and hydrophobic functionalization for highly efficient adsorption. Environmental Science and Pollution Research, 2022, 29, 33595-33608.	2.7	3
486	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes. Nature Communications, 2022, 13, 295.	5.8	54
487	Solar Selective Absorber for Emerging Sustainable Applications. Advanced Energy and Sustainability Research, 2022, 3, .	2.8	34
488	Highly efficient UV-visible-infrared photothermocatalytic removal of ethyl acetate over a nanocomposite of CeO2 and Ce-doped manganese oxide. Chinese Journal of Catalysis, 2022, 43, 379-390.	6.9	20

#	ARTICLE	IF	CITATIONS
489	Promotion of Lowâ€4emperature Oxidation of Propane through Introduction of Ce into Mullite Oxide YMn ₂ O ₅ . ChemPlusChem, 2022, 87, e202100455.	1.3	3
490	MnO _{<i>x</i>} Catalyst with Highâ€Efficiency Degradation Behavior of Toluene: Effect of Cryptomelane. ChemistrySelect, 2022, 7, .	0.7	2
491	Recent advance on cobalt-based oxide catalyst for the catalytic removal of volatile organic compounds: A review. , 2022, 1, 27-46.		7
492	Preparation and application of Co3O4 catalysts from ZIF-67 membranes over paper-like stainless steel fibers in isopropanol combustion. Journal of Solid State Chemistry, 2022, 308, 122880.	1.4	5
493	NaCl induced active hcp Co nanosheet for hydrogen production and formaldehyde abatement by formaldehyde steam reforming. Chemical Engineering Journal, 2022, 433, 134600.	6.6	9
494	In-situ platinum nanoparticles loaded dialdehyde modified sisal fiber-based activated carbon fiber paper for formaldehyde oxidation. Industrial Crops and Products, 2022, 178, 114598.	2.5	3
495	Catalytic oxidation of VOCs over 3D@2D Pd/CoMn2O4 nanosheets supported on hollow Al2O3 microspheres. Journal of Colloid and Interface Science, 2022, 613, 155-167.	5.0	26
496	Cr doped Mn3O4 thermal catalytic isopropanol degradation at low-temperature and catalytic mechanism research. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 640, 128390.	2.3	4
497	Pd/silicalite-1: An highly active catalyst for the oxidative removal of toluene. Journal of Environmental Sciences, 2022, 116, 209-219.	3.2	7
498	Enhancement in catalytic performance of birnessite-type MnO ₂ -supported Pd nanoparticles by the promotional role of reduced graphene oxide for toluene oxidation. Catalysis Science and Technology, 2022, 12, 2197-2209.	2.1	7
499	Calcination engineering of urchin-like CoO -CN catalysts to enhance photothermocatalytic oxidation of toluene via photo-/thermo- coupling effect. Applied Catalysis B: Environmental, 2022, 307, 121208.	10.8	24
500	HAp/TiO2 heterojunction catalyst towards low-temperature thermal oxidation of VOC. Materials Research Express, 0, , .	0.8	3
501	Recent advances in the chemical oxidation of gaseous volatile organic compounds (VOCs) in liquid phase. Chemosphere, 2022, 295, 133868.	4.2	28
502	Preparation of tungsten–iron composite oxides and application in environmental catalysis for volatile organic compounds degradation. Tungsten, 2022, 4, 38-51.	2.0	28
503	Boosting Toluene Combustion by Tuning Electronic Metal–Support Interactions in In Situ Grown Pt@Co ₃ O ₄ Catalysts. Environmental Science & Technology, 2022, 56, 1376-1385.	4.6	94
504	Reduced Graphene Oxide as an Effective Promoter to the Layered Manganese Oxide-Supported Ag Catalysts for the Oxidation of Ethyl Acetate and Carbon Monoxide. SSRN Electronic Journal, 0, , .	0.4	0
505	One-Step Synthesis of Transition Metal Modified Uio-66-Ce Metal-Organic Framework: Catalytic Oxidation of Toluene and Investigation of the Mechanism. SSRN Electronic Journal, 0, , .	0.4	0
506	Plasma-Catalytic Oxidation of Chlorobenzene Over Co-Mn/Tio2 Catalyst in a Dielectric Barrier Discharge Reactor with the Segmented Electrodes. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
507	Near-infrared light induced adsorption–desorption cycle for VOC recovery by integration of metal–organic frameworks with graphene oxide nanosheets. Environmental Science: Nano, 2022, 9, 1858-1868.	2.2	11
508	Synergistic effect of metal oxidation states and surface acidity enhanced the trace ethylene adsorption of Ag/ZSM-5. New Journal of Chemistry, 2022, 46, 9048-9056.	1.4	1
509	Robust Photocatalytic Performance of Tio2/Bi2wo6 Photocatalysts with Trace Fe Dopant for Gaseous Toluene Decomposition. SSRN Electronic Journal, 0, , .	0.4	0
510	A review on the synthesis and applications of sustainable copper-based nanomaterials. Green Chemistry, 2022, 24, 3502-3573.	4.6	23
511	Catalytic Ozonation of Ch2cl2 Over Hollow Urchin-Like Mno2 with Regulation of Active Oxygen by Catalyst Modification and Ozone Promotion. SSRN Electronic Journal, 0, , .	0.4	0
512	Unveiling Effects of Potassium and Sulfate on the Active Oxygen Modulation of Mno2 for Toluene Catalytic Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
513	Changes of the C ₃ H ₆ -Poisoning Effect over a Cu-SSZ-13 NH ₃ –SCR Catalyst upon Hydrothermal Treatment at Different Temperatures. Energy & Fuels, 2022, 36, 2712-2721.	2.5	5
514	Metal–Organic-Framework-Decorated Carbon Nanofibers with Enhanced Gas Sensitivity When Incorporated into an Organic Semiconductor-Based Gas Sensor. ACS Applied Materials & Interfaces, 2022, 14, 10637-10647.	4.0	18
515	Effect of Cu-ZSM-5 catalysts with different CuO particle size on selective catalytic oxidation of N,N-Dimethylformamide. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	6
516	Synergistic Catalytic Elimination of NO <i>_x</i> and Chlorinated Organics: Cooperation of Acid Sites. Environmental Science & amp; Technology, 2022, 56, 3719-3728.	4.6	41
517	Adsorption and membrane separation for removal and recovery of volatile organic compounds. Journal of Environmental Sciences, 2023, 123, 96-115.	3.2	45
518	Elucidating the Characteristics of Palladium-Anchored CeO ₂ -Modified Hexagonal Nanosheet Co ₃ O ₄ Catalysts for the Complete Oxidation of Volatile Organic Compounds. Industrial & Engineering Chemistry Research, 2022, 61, 7537-7546.	1.8	6
519	Harnessing Adsorption–Catalysis Synergy: Efficient Oxidative Removal of Gaseous Formaldehyde by a Manganese Dioxide/Metal–Organic Framework Nanocomposite at Room Temperature. Advanced Functional Materials, 2022, 32, .	7.8	15
520	The world-wide waste web. Nature Communications, 2022, 13, 1615.	5.8	19
521	Borophene and Pristine Graphene 2D Sheets as Potential Surfaces for the Adsorption of Electron-Rich and Electron-Deficient π-Systems: A Comparative DFT Study. Nanomaterials, 2022, 12, 1028.	1.9	7
522	Activation of Oxygen on the Surface of the Co ₃ O ₄ Catalyst by Single-Atom Ag toward Efficient Catalytic Benzene Combustion. Journal of Physical Chemistry C, 2022, 126, 5873-5884.	1.5	7
523	Regulating the Spatial Distribution of Ru Nanoparticles on CeO ₂ Support for Enhanced Propane Oxidation. ACS Applied Nano Materials, 2022, 5, 3937-3945.	2.4	6
524	A review of whole-process control of industrial volatile organic compounds in China. Journal of Environmental Sciences, 2023, 123, 127-139.	3.2	26

#	Article	IF	CITATIONS
525	Unraveling the promoting roles of sulfate groups on propane combustion over Pt-SO42â^'/ZrO2 catalysts. Journal of Catalysis, 2022, 407, 322-332.	3.1	18
526	Recent advances of zeolites in catalytic oxidations of volatile organic compounds. Catalysis Today, 2023, 410, 56-67.	2.2	18
527	Emerging Ultrahighâ€Density Singleâ€Atom Catalysts for Versatile Heterogeneous Catalysis Applications: Redefinition, Recent Progress, and Challenges. Small Structures, 2022, 3, .	6.9	41
528	Low thermal oxidation of gaseous toluene over Cu/Ce single-doped and co-doped OMS-2 on different synthetic routes. Chemical Engineering Communications, 2024, 211, 350-365.	1.5	0
529	Modulating the Electronic Metalâ€Support Interactions in Singleâ€Atom Pt ₁ â^'CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie, 2022, 134, .	1.6	4
530	Preparation of graphene-based catalysts and combined DBD reactor for VOC degradation. Environmental Science and Pollution Research, 2022, 29, 51717-51731.	2.7	3
531	Neighboring sp-Hybridized Carbon Participated Molecular Oxygen Activation on the Interface of Sub-nanocluster CuO/Graphdiyne. Journal of the American Chemical Society, 2022, 144, 4942-4951.	6.6	67
532	Biotemplate Fabrication of Hollow Tubular Ce <i>_x</i> Sr _{1â€⁴<i>x</i>} TiO ₃ with Regulable Surface Acidity and Oxygen Mobility for Efficient Destruction of Chlorobenzene: Intrinsic Synergy Effect and Reaction Mechanism Environmental Science & amp: Technology, 2022, 56, 5796-5807	4.6	45
533	Microwave-Assisted Synthesis of Pt Nanoparticles via Liquid-Phase Polyol Reaction for Catalytic Volatile Organic Compound Elimination. ACS Applied Nano Materials, 2022, 5, 4305-4315.	2.4	8
534	Modulating the Electronic Metalâ€5upport Interactions in Singleâ€Atom Pt ₁ â^CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	7.2	46
535	Adsorption of acetone and toluene by N-functionalized porous carbon derived from ZIF-8. Journal of Industrial and Engineering Chemistry, 2022, 111, 137-146.	2.9	11
536	Catalytic oxidation of dichloromethane over CrFeO mixed oxides: Improved activity and stability by sulfuric acid treatment. Applied Catalysis A: General, 2022, 636, 118573.	2.2	5
537	Remarkable Pd/SnO2 nano-rod catalysts with ultra-low Pd content for toluene combustion: Clarifying the effect of SnO2 morphology on the valence states of the supported Pd species and the vital role of PdO. Applied Catalysis A: General, 2022, 636, 118576.	2.2	6
538	Synergism between Manganese and Cobalt on Mn–Co Oxides for the Catalytic Combustion of VOCs: A Combined Kinetics and Diffuse Reflectance Infrared Fourier Transform Spectroscopy Study. Industrial & Engineering Chemistry Research, 2022, 61, 4803-4815.	1.8	13
539	Cu-Mn-CeOx loaded ceramic catalyst for non-thermal sterilization and microwave thermal catalysis of VOCs degradation. Chemical Engineering Journal, 2022, 442, 136288.	6.6	18
540	The removal of ethyl mercaptan by Fe2O3/HNb3O8-NS composite. Inorganic Chemistry Communication, 2022, 140, 109440.	1.8	4
541	Hierarchical Cu-Mn/ZSM-5 with boosted activity and selectivity for n-butylamine destruction: Synergy of pore structure and surface acidity. Applied Catalysis A: General, 2022, 636, 118579.	2.2	7
542	Low-temperature catalytic combustion of trichloroethylene over MnO -CeO2 mixed oxide catalysts. Journal of Rare Earths, 2023, 41, 523-530.	2.5	14

ARTICLE IF CITATIONS O-vacancy-rich porous MnO2 nanosheets as highly efficient catalysts for propane catalytic oxidation. 543 10.8 79 Applied Catalysis B: Environmental, 2022, 312, 121387. Low-temperature oxidative removal of gaseous formaldehyde by an eggshell waste supported 544 silver-manganese dioxide bimetallic catalyst with ultralow noble metal content. Journal of 6.5 Hazardous Materials, 2022, 434, 128857. A-site cation exfoliation of amorphous SmMnxOy oxides for low temperature propane oxidation. 545 3.117 Journal of Catalysis, 2022, 409, 59-69. One-pot synthesis of dual-phase manganese dioxide for toluene removal: Effect of crystal phase blending level on oxygen species and activity. Journal of Environmental Chemical Engineering, 2022, 10, 546 107448 Engineering CoCexZr1â'x/Ni foam monolithic catalysts for ethyl acetate efficient destruction. Fuel, 547 3.4 11 2022, 317, 123574. Toluene and water vapor adsorption characteristics and selectivity on hydrophobic resin-based activated carbon. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 642, 128604. 548 2.3 Reduced graphene oxide as an effective promoter to the layered manganese oxide-supported Ag 549 catalysts for the oxidation of ethyl acetate and carbon monoxide. Journal of Hazardous Materials, 6.5 12 2022, 431, 128518. Mechanistic insights into benzene oxidation over CuMn2O4 catalyst. Journal of Hazardous Materials, 6.5 16 2022, 431, 128640. A convenient and highly efficient catalytic oxidation of alcohol to acid using CoCl2-[Cemim]Br under 551 0 1.0 mild conditions. Journal of Ionic Liquids, 2022, 2, 100025. Dual confinement strategy based on metal-organic frameworks to synthesize MnOx@ZrO2 catalysts 3.4 for toluene catalytic oxidation. Fuel, 2022, 320, 123983. Confinement and synergy effect of bimetallic Pt-Mn nanoparticles encapsulated in ZSM-5 zeolite with superior performance for acetone catalytic oxidation. Applied Catalysis B: Environmental, 2022, 309, 553 10.8 71 121224. Quenching-induced surface modulation of perovskite oxides to boost catalytic oxidation activity. 554 6.5 Journal of Hazardous Materials, 2022, 433, 128765. A critical review on plasma-catalytic removal of VOCs: Catalyst development, process parameters and 555 3.9 70 synergetic reaction mechanism. Science of the Total Environment, 2022, 828, 154290. Enhanced catalytic elimination of typical VOCs over ZnCoOx catalyst derived from in situ pyrolysis of ZnCo bimetallic zeolitic imidazolate frameworks. Applied Catalysis B: Environmental, 2022, 308, 121212. 10.8 Production of value-added substances from the electrochemical oxidation of volatile organic 557 12 6.6 compounds in methanol medium. Chemical Engineering Journal, 2022, 440, 135803. Unveiling the collective effects of moisture and oxygen on the photocatalytic degradation of m-Xylene using a titanium dioxide supported platinum catalyst. Chemical Engineering Journal, 2022, 439, 135747. Boosting catalytic toluene combustion over Mn doped Co3O4 spinel catalysts: Improved mobility of 559 3.134 surface oxygen due to formation of Mn-O-Co bonds. Applied Surface Science, 2022, 590, 153140. Constructing MnO2 alpha/amorphous heterophase junction by mechanochemically induced phase 3.1 transformation for formaldehyde oxidation. Applied Surface Science, 2022, 589, 152855.

#	Article	IF	CITATIONS
561	Active surface RuO species originating from size-driving self-dispersion process for toluene catalytic combustion. Chemical Engineering Journal, 2022, 441, 136127.	6.6	13
562	Realizing Toluene Deep Mineralization by Coupling Nonthermal Plasma and Nitrogen-Enriched Hollow Hybrid Carbon. ACS Applied Materials & Interfaces, 2022, 14, 990-1001.	4.0	10
563	Manganese-Based Catalysts for Indoor Volatile Organic Compounds Degradation with Low Energy Consumption and High Efficiency. Transactions of Tianjin University, 2022, 28, 53-66.	3.3	8
564	Plasma degradation of trichloroethylene: process optimization and reaction mechanism analysis. Journal Physics D: Applied Physics, 2022, 55, 125202.	1.3	3
565	Functional Microfiber Nonwoven Fabric with Copper Ion-Immobilized Polymer Brush for Detection and Adsorption of Acetone Gas. Sensors, 2022, 22, 91.	2.1	1
566	Chromium Oxides as Structural Modulators of Rhodium Dispersion on Ceria to Generate Active Sites for NO Reduction. ACS Catalysis, 2022, 12, 431-441.	5.5	3
567	Sea-Urchin-Like Carbon Nanospheres for Electrocatalytic Dechlorination of 1,2-Dichloroethane. ACS Applied Nano Materials, 2021, 4, 13090-13098.	2.4	13
568	Oxidative Removal of Volatile Organic Compounds over the Supported Bimetallic Catalysts. The Global Environmental Engineers, 0, 7, 1-27.	0.3	2
569	Dopant-driven tuning of toluene oxidation and sulfur resistance at the B-site of LaCo _{1â~<i>x</i>} M _{<i>x</i>} O ₃ (M = Fe, Cr, Cu) perovskites. Catalysis Science and Technology, 2022, 12, 3670-3684.	2.1	8
570	Controllable synthesis of MnO2/iron mesh monolithic catalyst and its significant enhancement for toluene oxidation. Chinese Chemical Letters, 2023, 34, 107437.	4.8	5
571	Effect of MnO ₂ Polymorphs' Structure on Low-Temperature Catalytic Oxidation: Crystalline Controlled Oxygen Vacancy Formation. ACS Applied Materials & Interfaces, 2022, 14, 18525-18538.	4.0	27
572	Insight into the Contribution of Cerium Oxide to MnO _x /CeO ₂ in Methanol Oxidation Reaction: Perspective From the Crystal Facet of CeO ₂ . ChemCatChem, 2022, 14, .	1.8	4
573	Synergy in Auâ^'CuO Janus Structure for Catalytic Isopropanol Oxidative Dehydrogenation to Acetone. Angewandte Chemie, 2022, 134, .	1.6	5
574	Study of the Treatment of Organic Waste Gas Containing Benzene by a Low Temperature Plasma-Biological Degradation Method. Atmosphere, 2022, 13, 622.	1.0	2
575	Synergy in Auâ^'CuO Janus Structure for Catalytic Isopropanol Oxidative Dehydrogenation to Acetone. Angewandte Chemie - International Edition, 2022, 61, .	7.2	30
576	Effects of sulfur poisoning on physicochemical properties and performance of MnO2/AlNi-PILC for toluene catalytic combustion. Journal of Hazardous Materials, 2022, 435, 128950.	6.5	6
577	Tailoring Co3O4 active species to promote propane combustion over Co3O4/ZSM-5 catalyst. Molecular Catalysis, 2022, 524, 112297.	1.0	3
578	Photocatalytic performance of TiO2/Bi2WO6 photocatalysts with trace Fe3+ dopant for gaseous toluene decomposition. Journal of Environmental Chemical Engineering, 2022, 10, 107708.	3.3	5

#	Article	IF	CITATIONS
579	TiO2 nanosheet supported MnCeOx: a remarkable catalyst with enhanced low-temperature catalytic activity in o-DCB oxidation. Environmental Science and Pollution Research, 2022, 29, 63533-63544.	2.7	0
580	Convection – Diffusion – Radiation Heat and Mass Transfer to a Sphere Accompanied by a Surface Exothermal Chemical Reaction. SSRN Electronic Journal, 0, , .	0.4	0
581	Insight into the pH effect on the oxygen species and Mn chemical valence of Co–Mn catalysts for total toluene oxidation. Catalysis Science and Technology, 2022, 12, 4157-4168.	2.1	10
582	Efficient Photocatalytic Oxidation of Vocs Using Zno@Au Nanoparticles. SSRN Electronic Journal, 0, ,	0.4	0
583	Advanced Dual-Function Hollow Cu2-Xs-Based Polyimide Composite Window Film Combining Near-Infrared Thermal Shielding and Formaldehyde Photodegradation. SSRN Electronic Journal, 0, , .	0.4	0
584	Nb-Modified Coox as Efficient Catalysts for Toluene Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
585	Highly improved acetone oxidation performance over mesostructured Cu _{<i>x</i>} Ce _{1â^?<i>x</i>} O ₂ hollow nanospheres. New Journal of Chemistry, 2022, 46, 9602-9611.	1.4	3
586	N-Coordinated Ir single atoms anchored on carbon octahedrons for catalytic oxidation of formaldehyde under ambient conditions. Catalysis Science and Technology, 2022, 12, 4001-4011.	2.1	6
587	Controlled Synthesis of Niobium and Rare Earth Mixed Oxides for Catalytic Combustion of Chlorinated Vocs in the Synthesis Process of Polyether Polyol and Polyurethane. SSRN Electronic Journal, 0, , .	0.4	0
588	Atomically dispersed Ru catalysts for polychlorinated aromatic hydrocarbon oxidation. Nanoscale, 2022, 14, 7849-7855.	2.8	4
589	Confining shell-sandwiched Ag clusters in MnO2-CeO2 hollow spheres to boost activity and stability of toluene combustion. Nano Research, 2022, 15, 7042-7051.	5.8	37
590	Silica-Supported Copper (II) Oxide Cluster via Ball Milling Method for Catalytic Combustion of Ethyl Acetate. Catalysts, 2022, 12, 497.	1.6	4
591	Identification of Active Sites in HCHO Oxidation over TiO ₂ -Supported Pt Catalysts. ACS Catalysis, 2022, 12, 5565-5573.	5.5	24
592	Insights into the Sintering Resistance of Sphere-like Mn ₂ O ₃ in Catalytic Toluene Oxidation: Effect of Manganese Salt Precursor and Crucial Role of Residual Trace Sulfur. Industrial & Engineering Chemistry Research, 2022, 61, 6414-6426.	1.8	10
593	Photocatalytic degradation of gaseous benzene using metal oxide nanocomposites. Advances in Colloid and Interface Science, 2022, 305, 102696.	7.0	25
594	Elucidating the role of confinement and shielding effect over zeolite enveloped Ru catalysts for propane low temperature degradation. Chemosphere, 2022, 302, 134884.	4.2	4
595	Catalytic Oxidation of Chlorobenzene over Ce-Mn-Ox/TiO2: Performance Study of the Porous Structure. Catalysts, 2022, 12, 535.	1.6	2
596	Highly efficient removal of toluene over Cu-V oxides modified Î ³ -Al2O3 in the presence of SO2. Journal of Hazardous Materials, 2022, 436, 129041.	6.5	17

#	Article	IF	CITATIONS
597	Application and Development of Selective Catalytic Reduction Technology for Marine Low-Speed Diesel Engine: Trade-Off among High Sulfur Fuel, High Thermal Efficiency, and Low Pollution Emission. Atmosphere, 2022, 13, 731.	1.0	39
598	Deuterium Tracer for Accurate Online Lube-Oil-Consumption Measurement: Stability, Compatibility and Tribological Characteristics. Lubricants, 2022, 10, 84.	1.2	0
599	Sensors for Volatile Organic Compounds. ACS Nano, 2022, 16, 7080-7115.	7.3	129
600	A versatile route to fabricate Metal/UiO-66 (MetalÂ=ÂPt, Pd, Ru) with high activity and stability for the catalytic oxidation of various volatile organic compounds. Chemical Engineering Journal, 2022, 448, 136900.	6.6	33
601	Synthesis of quantitative sulfur-poisoned Pd/ \hat{I}^3 -Al2O3 and its deactivation mechanism for catalytic combustion of toluene. Applied Catalysis A: General, 2022, 639, 118641.	2.2	9
602	Revealing the mechanism of high water resistant and excellent active of CuMn oxide catalyst derived from Bimetal-Organic framework for acetone catalytic oxidation. Journal of Colloid and Interface Science, 2022, 622, 577-590.	5.0	24
603	Trace removal of benzene vapour using double-walled metal–dipyrazolate frameworks. Nature Materials, 2022, 21, 689-695.	13.3	109
604	Recent Advances of Beta Zeolite in the Volatile Organic Compounds(VOCs) Elimination by the Catalytic Oxidations. Chemical Research in Chinese Universities, 2022, 38, 716-722.	1.3	9
605	Implications for ozone control by understanding the survivor bias in observed ozone-volatile organic compounds system. Npj Climate and Atmospheric Science, 2022, 5, .	2.6	21
606	Research Progress of a Composite Metal Oxide Catalyst for VOC Degradation. Environmental Science & Technology, 2022, 56, 9220-9236.	4.6	68
607	Gas-phase photoelectrocatalytic oxidation of volatile organic compounds using defective WO ₃ /TiO ₂ nanotubes mesh. Environmental Science: Nano, 2022, 9, 2172-2181.	2.2	4
608	Reactive oxygen species on transition metal-based catalysts for sustainable environmental applications. Journal of Materials Chemistry A, 2022, 10, 19184-19210.	5.2	16
609	The recent progress on gaseous chlorinated aromatics removal for environmental applications. Separation and Purification Technology, 2022, 296, 121364.	3.9	7
610	Rational design of electrospun nanofibers for gas purification: Principles, opportunities, and challenges. Chemical Engineering Journal, 2022, 446, 137099.	6.6	27
611	Boosting the VOCs purification over high-performance α-MnO2 separated from spent lithium-ion battery: Synergistic effect of metal doping and acid treatment. Separation and Purification Technology, 2022, 295, 121316.	3.9	5
612	Catalytic ozonation of CH2Cl2 over hollow urchin-like MnO2 with regulation of active oxygen by catalyst modification and ozone promotion. Journal of Hazardous Materials, 2022, 436, 129217.	6.5	18
613	Assembling core-shell SiO2@NiaCobOx nanotube decorated by hierarchical NiCo-Phyllisilicate ultrathin nanosheets for highly efficient catalytic combustion of VOCs. Applied Catalysis B: Environmental, 2022, 315, 121524.	10.8	22
614	One Step Synthesis of Transition Metal Modified Uio-66-Ce Metal-Organic Framework: Catalytic Oxidation of Toluene and Investigation of the Mechanism. SSRN Electronic Journal, 0, , .	0.4	1

#	Article	IF	CITATIONS
615	Lattice Distortion in Mn3o4/Smox Nanocomposite Catalyst for Enhanced Carbon Monoxide Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
616	Bifunctional conjugated microporous polymer based filters for highly efficient PM and gaseous iodine capture. Polymer Chemistry, 2022, 13, 3681-3688.	1.9	2
617	Catalytic activity and properties of copper-doped ceria nanocatalyst for VOCs oxidation. Journal of Materials Research, 2022, 37, 1929-1940.	1.2	2
618	Recent Advances of Chlorinated Volatile Organic Compounds' Oxidation Catalyzed by Multiple Catalysts: Reasonable Adjustment of Acidity and Redox Properties. Environmental Science & Technology, 2022, 56, 9854-9871.	4.6	48
619	Remarkable performance of atomically dispersed cobalt catalyst for catalytic removal of indoor formaldehyde. Journal of Colloid and Interface Science, 2022, 624, 527-536.	5.0	8
620	Toluene Adsorption on CeO2 (111) Studied by FTIR and DFT. Topics in Catalysis, 2022, 65, 934-943.	1.3	3
621	Modified natural zeolites and clays as support of Ni–Mn catalyst for toluene oxidation in a one-stage plasma-catalysis system. International Journal of Environmental Science and Technology, 0, , .	1.8	0
622	Catalytic oxidation of volatile organic compounds by non-noble metal catalyst: Current advancement and future prospectives. Journal of Cleaner Production, 2022, 363, 132523.	4.6	44
623	Exploration the mechanisms underlying peroxymonosulfate activation by nano-cubic spinel M2MnO4 nanoparticles for degrading trichloroethylene. Chemical Engineering Journal, 2022, 446, 137394.	6.6	10
624	Effect of different reduction methods on Pd/Al2O3 for o-xylene oxidation at low temperature. Journal of Environmental Sciences, 2023, 125, 95-100.	3.2	4
625	Efficient Catalytic Ozonation of Cl-Vocs Over Novel Monolithic Cobalt Catalyst in Humid Complex Flue Gas. SSRN Electronic Journal, 0, , .	0.4	0
626	Oxygen vacancies in a catalyst for VOCs oxidation: synthesis, characterization, and catalytic effects. Journal of Materials Chemistry A, 2022, 10, 14171-14186.	5.2	110
627	MOF@PVA beads for dynamic and low concentration VOC capture. Materials Advances, 2022, 3, 6458-6465.	2.6	3
628	Hollow mesoporous aluminosilicate spheres imbedded with Pd nanoparticles for high performance toluene combustion. Catalysis Today, 2023, 410, 135-142.	2.2	4
629	Perovskite oxides as active materials in novel alternatives to well-known technologies: A review. Ceramics International, 2022, 48, 27240-27261.	2.3	42
630	Stainless steel catalyst for air pollution control: structure, properties, and activity. Environmental Science and Pollution Research, 2022, 29, 55367-55399.	2.7	9
631	Improved and Reduced Performance of Cu- and Ni-Substituted Co ₃ O ₄ Catalysts with Varying Co _{Oh} /Co _{Td} and Co ³⁺ /Co ²⁺ Ratios for the Complete Catalytic Oxidation of VOCs. Environmental Science & amp; Technology, 2022, 56, 9751-9761.	4.6	31
632	Controlled synthesis of niobium and rare earth mixed oxides for catalytic combustion of chlorinated VOCs in the synthesis process of polyether polyol and polyurethane. Journal of Solid State Chemistry, 2022, 313, 123318.	1.4	6

#	Article	IF	CITATIONS
633	Recent Progress in the Development of Hyper-Cross-Linked Polymers for Adsorption of Gaseous Volatile Organic Compounds. Polymer Reviews, 2023, 63, 365-393.	5.3	11
634	Adsorption of acetone, ethyl acetate and toluene by beta zeolite/diatomite composites: preparation, characterization and adsorbability. Environmental Science and Pollution Research, 2022, 29, 80646-80656.	2.7	2
635	Selective Ru Adsorption on SnO ₂ /CeO ₂ Mixed Oxides for Efficient Destruction of Multicomponent Volatile Organic Compounds: From Laboratory to Practical Possibility. Environmental Science & Technology, 2022, 56, 9762-9772.	4.6	15
636	Total Oxidation of Light Alkane over Phosphate-Modified Pt/CeO ₂ Catalysts. Environmental Science & Technology, 2022, 56, 9661-9671.	4.6	65
637	Low-Temperature Combustion of Toluene over Cu-Doped SmMn ₂ O ₅ Mullite Catalysts via Creating Highly Active Cu ²⁺ –O–Mn ⁴⁺ Sites. Environmental Science & Technology, 2022, 56, 10433-10441.	4.6	40
638	Mesoporous Na _{<i>x</i>} MnO _{<i>y</i>} -Supported Platinum–Cobalt Bimetallic Single-Atom Catalysts with Good Sulfur Dioxide Tolerance in Propane Oxidation. ACS Sustainable Chemistry and Engineering, 2022, 10, 8326-8341.	3.2	7
639	Nb-modified CoO as efficient catalysts for toluene oxidation. Applied Catalysis A: General, 2022, 643, 118722.	2.2	11
640	Plasma-catalytic oxidation of chlorobenzene over Co-Mn/TiO2 catalyst in a dielectric barrier discharge reactor with the segmented electrodes. Journal of Environmental Chemical Engineering, 2022, 10, 108021.	3.3	7
641	Yttrium-modified Co3O4 as efficient catalysts for toluene and propane combustion: Effect of yttrium content. Journal of Hazardous Materials, 2022, 437, 129316.	6.5	18
642	Catalytic oxidation of volatile organic compounds over manganese-based oxide catalysts: Performance, deactivation and future opportunities. Separation and Purification Technology, 2022, 296, 121436.	3.9	18
643	Defect engineering over Co3O4 catalyst for surface lattice oxygen activation and boosted propane total oxidation. Journal of Catalysis, 2022, 413, 150-162.	3.1	49
644	N-doped carbon-modified palladium catalysts with superior water resistant performance for the oxidative removal of toxic aromatics. Journal of Hazardous Materials, 2022, 437, 129358.	6.5	10
645	Preferential removal of aromatics-dominated electronic industrial emissions using the integration of spray tower and photocatalysis technologies. Journal of Cleaner Production, 2022, 364, 132706.	4.6	6
646	Volatile organic compounds (VOC) emissions control in iron ore sintering process: Recent progress and future development. Chemical Engineering Journal, 2022, 448, 137601.	6.6	37
647	Three birds with one stone: Designing a novel binder-free monolithic zeolite pellet for wet VOC gas adsorption. Chemical Engineering Journal, 2022, 448, 137629.	6.6	18
648	Boosting Sulfur Tolerance and Catalytic Performance in Toluene Combustion Via Enhanced-Mechanism of Ce-Fe Dopants Incorporation OfÂLacoo3 Perovskite. SSRN Electronic Journal, 0, , .	0.4	0
649	Enhanced Low Temperature Catalytic Activity for Toluene Oxidation by Heterophase Junction Over Lamno3@Α-Mno2 Catalyst. SSRN Electronic Journal, 0, , .	0.4	0
650	In-Situ Joule-Heating Drives Rapid and On-Demand Catalytic Vocs Removal with Ultralow Energy Consumption. SSRN Electronic Journal, 0, , .	0.4	0

#	Article	IF	CITATIONS
651	In Situ Fabrication of Highly Dispersed Co-Fe-Doped-Δ-Mno2 Catalyst by a Facile Redox-Driving Mofs-Derived Method for Low-Temperature Oxidation of Toluene. SSRN Electronic Journal, 0, , .	0.4	0
652	Kinetics of Chromium(V)-Oxo and Chromium(Iv)-Oxo Porphyrins: Reactivity and Mechanism for Sulfoxidation Reactions. SSRN Electronic Journal, 0, , .	0.4	0
653	Metals Incorporated into Oms-2 Lattice Create Flexible Catalysts with Highly Efficient Activity in Vocs ÂÂCombustion. SSRN Electronic Journal, 0, , .	0.4	0
654	Metal nanoclusters as photosensitizers. , 2022, , 569-587.		0
655	Advances and challenges of photocatalytic technology for air purification. , 2022, 1, 20220025.		5
656	Photocatalytic Reactor as a Bridge to Link the Commercialization of Photocatalyst in Water and Air Purification. Catalysts, 2022, 12, 724.	1.6	6
657	Cu-VWT Catalysts for Synergistic Elimination of NO _{<i>x</i>} and Volatile Organic Compounds from Coal-Fired Flue Gas. Environmental Science & Technology, 2022, 56, 10095-10104.	4.6	15
658	Unraveling the Unique Role of Methyl Position on the Ring-Opening Barrier in Photocatalytic Decomposition of Xylene Isomers. ACS Catalysis, 2022, 12, 8363-8371.	5.5	8
659	Surfaceâ€Confined Synthesis of Ultrafine Ptâ€Rare Earth Nanoalloys on Nâ€Functionalized Supports. Advanced Functional Materials, 2022, 32, .	7.8	10
660	Enhancement of toluene oxidation performance over La1-CoO3- perovskite by lanthanum non-stoichiometry. Journal of Environmental Sciences, 2023, 127, 811-823.	3.2	10
661	Hierarchical pore enhanced adsorption and photocatalytic performance of graphene oxide/Ti-based metal-organic framework hybrid for toluene removal. Applied Catalysis B: Environmental, 2022, 317, 121751.	10.8	16
662	Catalytic Oxidation of Toluene over Fe-Rich Palygorskite Supported Manganese Oxide: Characterization and Performance. Catalysts, 2022, 12, 763.	1.6	2
663	Assessing the environmental impacts and costs of biochar and monitored natural attenuation for groundwater heavily contaminated with volatile organic compounds. Science of the Total Environment, 2022, 846, 157316.	3.9	2
664	Engineering Ru/MnCo ₃ O _{<i>x</i>/sub> for 1,2-Dichloroethane Benign Destruction by Strengthening C–Cl Cleavage and Chlorine Desorption: Decisive Role of H₂O and Reaction Mechanism. ACS Catalysis, 2022, 12, 8776-8792.}	5.5	23
665	The use of black mass in spent primary battery as an oxidative catalyst for removal of volatile organic compounds. Journal of Industrial and Engineering Chemistry, 2022, 114, 323-330.	2.9	4
666	Construction of framework confined ordered mesoporous Pt/TixAlOy catalysts and applied for the catalytic oxidation of propane. Microporous and Mesoporous Materials, 2022, 341, 112111.	2.2	2
667	Novel CoMn2O4 as a highly efficient catalyst for the oxidation of o-, m-, p-xylene: Preparation and kinetic study. Molecular Catalysis, 2022, 528, 112482.	1.0	3
668	Fabricating a hydroxynaphthalene benzophenone Schiff base into a wearable fluorescent sensor for point-of-care sensing of volatile organic compounds. Dyes and Pigments, 2022, 205, 110561.	2.0	4

	CITATION	N REPORT	
#	Article	IF	CITATIONS
669	Boosting the deep oxidation of propane over zeolite encapsulated Rh-Mn bimetallic nanoclusters: Elucidating the role of confinement and synergy effects. Journal of Catalysis, 2022, 413, 201-213.	3.1	14
670	ZSM-5 nanocrystal promoted low-temperature activity of supported manganese oxides for catalytic oxidation of toluene. Inorganic Chemistry Communication, 2022, 143, 109759.	1.8	5
671	Boosting the efficiencies of ethanol total combustion by Cs incorporation into rod-shaped α-MnO2 catalysts. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 650, 129607.	2.3	7
672	The promoter effect of Nb species on the catalytic performance of Ir-based catalysts for VOCs total oxidation. Journal of Environmental Chemical Engineering, 2022, 10, 108261.	3.3	2
673	Highly efficient toluene absorption with ï€-electron donor-based deep eutectic solvents. Separation and Purification Technology, 2022, 298, 121618.	3.9	16
674	Insight into the promotional effect of NO2 on toluene oxidation over MnCe/HZSM-5 catalyst. Applied Surface Science, 2022, 600, 154161.	3.1	5
675	Dramatically promoted toluene destruction over Mn@Na-Al2O3@Al monolithic catalysts by Ce incorporation: Oxygen vacancy construction and reaction mechanism. Fuel, 2022, 326, 125051.	3.4	47
676	Volatile organic compounds (VOCs) removal by photocatalysts: A review. Chemosphere, 2022, 306, 135655.	4.2	49
677	Red mud-based catalysts for the catalytic removal of typical air pollutants: A review. Journal of Environmental Sciences, 2023, 127, 628-640.	3.2	30
678	Enhanced Water Resistance and Catalytic Performance of Ru/TiO ₂ by Regulating BrÃ,nsted Acid and Oxygen Vacancy for the Oxidative Removal of 1,2-Dichloroethane and Toluene. Environmental Science & Technology, 2022, 56, 11739-11749.	4.6	25
679	Sizeâ€Dependence of Ptâ€Based Catalysts for Ethane Catalytic Combustion. ChemistrySelect, 2022, 7, .	0.7	1
680	Effects of thermal aging on the electronic and structural properties of Pt-Pd and toluene oxidation activity. Science of the Total Environment, 2022, 847, 157482.	3.9	5
681	Carbon nanostructures: a comprehensive review of potential applications and toxic effects. 3 Biotech, 2022, 12, .	1.1	7
682	Total oxidation of benzene over cerium oxide-impregnated two-dimensional MWW zeolites obtained by environmental synthesis using Brazilian rice husk silica agro-industrial waste. Molecular Catalysis, 2022, 529, 112529.	1.0	2
683	Characteristics, Effects and Sources of Ambient Volatile Organic Compounds in Kaifeng, China. SSRN Electronic Journal, 0, , .	0.4	0
684	Twoâ^'dimensional nanomaterials confined single atoms: New opportunities for environmental remediation. Nano Materials Science, 2023, 5, 15-38.	3.9	10
685	A New Insight Over Oxygen Storage Capacity, SMSI, and Dispersion Effects on VOC Oxidation using Pt/Al2O3–CeO2 Catalysts. Topics in Catalysis, 2022, 65, 1530-1540.	1.3	1
686	Competitive Adsorption of a Binary VOC Mixture from the Gas Phase onto Activated Carbon Modified with Malic Acid. Industrial & amp; Engineering Chemistry Research, 2022, 61, 11947-11952.	1.8	4

#	Article	IF	CITATIONS
687	Catalytic Combustion Study of Ethanol Over Manganese Oxides with Different Morphologies. Energy & Fuels, 2022, 36, 9221-9229.	2.5	8
688	Rodâ€Like MnO _x Catalyst Derived from Mnâ€MOFâ€74 for Chlorobenzene Oxidation at Low Temperature. ChemistrySelect, 2022, 7, .	0.7	3
689	Alkali Etching Induced CoAl‣ayered Double Oxides with Regulatable Cation and Oxygen Vacancy Defects to Promote the Photothermal Degradation of Methanol. ChemNanoMat, 0, , .	1.5	1
690	Catalytic oxidation of toluene over Bâ€site doped Laâ€based perovskite LaNi <i>_x</i> B _{1â^<i>x</i>} O ₃ (BÂ=ÂCo, Cu) catalysts. Environmental Progress and Sustainable Energy, 2023, 42, .	1.3	3
691	Reactive Adsorption Performance and Behavior of Gaseous Cumene on MCM-41 Supported Sulfuric Acid. Molecules, 2022, 27, 5129.	1.7	1
692	Reactive Adsorption of Gaseous Anisole by MCM–41-Supported Sulfuric Acid. Catalysts, 2022, 12, 942.	1.6	2
693	Insights into Boosting SO ₂ Tolerance for Catalytic Oxidation of Propane over Fe ₂ O ₃ -Promoted Co ₃ O ₄ /Halloysite Catalysts. Industrial & Engineering Chemistry Research, 2022, 61, 12482-12492.	1.8	5
694	Influence of carrier effect on Pd/Al2O3 for methane complete catalytic oxidation. Frontiers in Chemistry, 0, 10, .	1.8	1
695	Advanced Dualâ^'Function Hollow Copperâ^'Sulfideâ^'Based Polyimide Composite Window Film Combining Nearâ^'Infrared Thermal Shielding and Organic Pollutants' Photodegradation. Polymers, 2022, 14, 3382.	2.0	1
696	Adsorption-enforced Fenton-like process using activated carbon-supported iron oxychloride catalyst for wet scrubbing of airborne dichloroethane. Chemosphere, 2022, 307, 136193.	4.2	5
697	Accelerating the Low-Temperature Catalytic Oxidation of Acetone over Al-Substituted Mn–Al Oxides by Rate-Limiting Step Modulation. ACS Applied Materials & Interfaces, 2022, 14, 36536-36550.	4.0	7
698	Mitigation of hazardous toluene via ozone-catalyzed oxidation using MnOx/Sawdust biochar catalyst. Environmental Pollution, 2022, 312, 119920.	3.7	10
699	Efficient degradation of toluene over ultra-low Pd supported on UiO-66 and its functional materials: Reaction mechanism, water-resistance, and influence of SO2. , 2022, 1, 166-181.		21
700	The abundant oxygen vacancies of the Co–Ce mixed oxides towards catalytic combustion toluene. Microporous and Mesoporous Materials, 2022, 343, 112158.	2.2	11
701	Single-atom site catalysts for environmental remediation: Recent advances. Journal of Hazardous Materials, 2022, 440, 129772.	6.5	30
702	Boosting sulfur tolerance and catalytic performance in toluene combustion via Enhanced-mechanism of Ce-Fe dopants incorporation of LaCoO3 perovskite. Journal of Environmental Chemical Engineering, 2022, 10, 108372.	3.3	15
703	Probing the effects of plasma-induced surface species in ring-opening process of toluene decomposition via plasma-excited TPD and in situ DRIFTS. Journal of Cleaner Production, 2022, 371, 133332.	4.6	8
704	Influence of Pt dispersibility and chemical states on catalytic performance of Pt/CeO2-TiO2 catalysts for VOCs low-temperature removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 652, 129932.	2.3	12

#	Article	IF	Citations
705	Layered double hydroxides-based materials as novel catalysts for gaseous VOCs abatement: Recent advances and mechanisms. Coordination Chemistry Reviews, 2022, 471, 214738.	9.5	12
706	In-situ Joule-heating drives rapid and on-demand catalytic VOCs removal with ultralow energy consumption. Nano Energy, 2022, 102, 107725.	8.2	12
707	Vinyl chloride catalytic combustion on Pt/CeO2: Tuning Pt chemical state to promote Cl removing. Chemosphere, 2022, 307, 135861.	4.2	8
708	Engineering ZnSn(OH)6 with ternary active sites-directed hydroxyl vacancies for robust deep C6H6 photo-oxidation: Experiment and DFT calculations. Chemical Engineering Journal, 2023, 451, 138695.	6.6	7
709	In Situ DRIFTS Study of Single-Atom, 2D, and 3D Pt on Î ³ -Al2O3 Nanoflakes and Nanowires for C2H4 Oxidation. Processes, 2022, 10, 1773.	1.3	2
710	Supramolecular Engineering of Amorphous Porous Polymers for Rapid Adsorption of Micropollutants and Solarâ€Powered Volatile Organic Compounds Management. Advanced Materials, 2022, 34, .	11.1	14
711	Recognition of water-dissociation effect toward lattice oxygen activation on single-atom Co catalyst in toluene oxidation. Applied Catalysis B: Environmental, 2022, 319, 121962.	10.8	16
712	Performance of toluene oxidation on different morphologies of α-MnO2 prepared using manganese-based compound high-selectively recovered from spent lithium-ion batteries. Environmental Research, 2022, 215, 114299.	3.7	6
713	Harnessing Waste Heat from Indoor lamps for Sustainable Thermocatalytic Mineralization of Acetaldehyde using Platinized TiO2. Chemosphere, 2022, 308, 136350.	4.2	1
714	Kinetics of chromium(V)-oxo and chromium(IV)-oxo porphyrins: Reactivity and mechanism for sulfoxidation reactions. Journal of Inorganic Biochemistry, 2022, 237, 112006.	1.5	2
715	Catalytic oxidation of dichloromethane over phosphate-modified Co3O4: Improved performance and control of byproduct selectivity by Co3O4 defects and surface acidity. Applied Surface Science, 2022, 606, 154924.	3.1	14
716	Enhanced catalytic ozonation of toluene using supported MnOx/USY via regulating the distribution of aluminum species in USY by dealumination. Journal of Environmental Chemical Engineering, 2022, 10, 108604.	3.3	7
717	Novel monolithic catalysts for VOCs removal: A review on preparation, carrier and energy supply. Chemosphere, 2022, 308, 136256.	4.2	11
718	Interaction between noble metals (Pt, Pd, Rh, Ir, Ag) and defect-enriched TiO2 and its application in toluene and propene catalytic oxidation. Applied Surface Science, 2022, 606, 154834.	3.1	19
719	K+ and CeO2 nanoparticles modified OMS-2 nanorods for enhanced activity and stability of photocatalytic toluene oxidation: K+ charge modulation and mechanistic investigation. Chemical Engineering Journal, 2023, 451, 138943.	6.6	13
720	Pt/CeO2 coated with polyoxometallate chainmail to regulate oxidation of chlorobenzene without hazardous by-products. Journal of Hazardous Materials, 2023, 441, 129925.	6.5	11
721	Micro-mesoporous graphitized carbon fiber as hydrophobic adsorbent that removes volatile organic compounds from air. Chemical Engineering Journal, 2023, 452, 139184.	6.6	11
722	Efficient photocatalytic oxidation of VOCs using ZnO@Au nanoparticles. Journal of Photochemistry and Photobiology A: Chemistry, 2023, 434, 114232.	2.0	7

#	Article	IF	Citations
723	Metals incorporated into OMS-2 lattice create flexible catalysts with highly efficient activity in VOCs combustion. Applied Catalysis B: Environmental, 2023, 320, 121955.	10.8	15
724	Tuning the olefin-VOCs epoxidation performance of ceria by mechanochemical loading of coinage metal. Journal of Hazardous Materials, 2023, 441, 129888.	6.5	8
725	Tentative exploration on water-promoted catalytic ozonation of Cl-VOCs and feasibility of application in complex flue gas over monolithic cobalt catalyst. Journal of Hazardous Materials, 2023, 441, 129997.	6.5	7
726	Mn1Zr O mixed oxides with abundant oxygen vacancies for propane catalytic oxidation: Insights into the contribution of Zr doping. Chemical Engineering Journal, 2023, 452, 139341.	6.6	16
727	<i>In situ</i> observation of highly oxidized Ru species in Ru/CeO ₂ catalyst under propane oxidation. Journal of Materials Chemistry A, 2022, 10, 16675-16684.	5.2	6
728	Phototriggered color modulation of perovskite nanoparticles for high density optical data storage. Chemical Science, 2022, 13, 10315-10326.	3.7	6
729	Interaction between Noble Metals (Pt, Pd, Rh, IR, Ag) and Defect-Enriched Tio2 and its Application in Toluene and Propene Catalytic Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
730	Molecular Oxygen Promoting the Simultaneous and Efficient Destruction of Aromatic Voc Mixtures in a Mos2 Cocatalytic Fenton Reaction. SSRN Electronic Journal, 0, , .	0.4	0
731	Micro-Mesoporous Graphitized Carbon Fiber as Hydrophobic Adsorbent that Removes Volatile Organic Compounds from Air. SSRN Electronic Journal, 0, , .	0.4	0
732	Identifying the Surface Active Sites of Feox-Modified Pt/Nb2o5 Catalysts in Co and Propane Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
733	Fast detection of hazardous chlorinated volatile organic compounds <i>via</i> laser-induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 0, , .	1.6	0
734	One-Step Solid-Phase Synthesis of Ce-Co Solid Solution for Low-Temperature Catalytic Oxidation of Toluene. Hans Journal of Nanotechnology, 2022, 12, 115-123.	0.1	0
735	Porous carbon nanoarchitectonics for the environment: detection and adsorption. CrystEngComm, 2022, 24, 6804-6824.	1.3	17
736	Combustion Control. , 2022, , 493-525.		0
737	Recent progress on catalysts for catalytic oxidation of volatile organic compounds: a review. Catalysis Science and Technology, 2022, 12, 6945-6991.	2.1	22
738	Template and interfacial reaction engaged synthesis of CeMnO _{<i>x</i>} hollow nanospheres and their performance for toluene oxidation. RSC Advances, 2022, 12, 25898-25905.	1.7	4
739	Structure-Property-Performance Relationship of Transition Metal Doped Wo3 Mixed Oxides for Catalytic Combustion of Dilute Vocs. SSRN Electronic Journal, 0, , .	0.4	0
740	Atomically dispersed Ag on δ-MnO ₂ <i>via</i> cation vacancy trapping for toluene catalytic oxidation. Catalysis Science and Technology, 2022, 12, 5932-5941.	2.1	12

#	Article	IF	CITATIONS
741	Volatile Organic Compounds (VOCs) Control. , 2022, , 91-142.		0
742	Insights into Synergistic Oxidation Mechanism of Hg0 and Chlorobenzene Over Mnco2o4 Microsphere with Oxygen Vacancy and Acidic Site. SSRN Electronic Journal, 0, , .	0.4	0
743	CE Doped Sno/Sno2 Heterojunctions for Highly Formaldehyde Gas Sensing at Low Temperature. SSRN Electronic Journal, 0, , .	0.4	0
744	Ni-Mn Spinel Aerogel Catalysts with Adsorption Induced Superior Activity for Low-Temperature Toluene Oxidation. SSRN Electronic Journal, 0, , .	0.4	0
745	Unravelling the intrinsic synergy between Pt and MnO _x supported on porous calcium silicate during toluene oxidation. New Journal of Chemistry, 2022, 46, 17348-17357.	1.4	4
746	The research hotspots and trends of volatile organic compound emissions from anthropogenic and natural sources: A systematic quantitative review. Environmental Research, 2023, 216, 114386.	3.7	14
747	Construction of oxygen vacancies in δ-MnO2 for promoting low-temperature toluene oxidation. Fuel, 2023, 332, 126104.	3.4	11
748	Ti3C2 MXene assembled with TiO2 for efficient photocatalytic mineralization of gaseous o-xylene. Applied Surface Science, 2023, 608, 155136.	3.1	7
749	Synergistic Effect of Surface Acidity and PtOx Catalyst on the Sensitivity of Nanosized Metal–Oxide Semiconductors to Benzene. Sensors, 2022, 22, 6520.	2.1	2
750	Manganese Catalysts for the Ozone-Assisted Oxidation of Volatile Organic Compounds: Effect of the Mn3+/Mn4+ Active Site Ratio on Catalytic Properties. Kinetics and Catalysis, 2022, 63, 515-522.	0.3	2
751	Effect of Organic Reagents on the Phase Structure of MnOx Porous Nanospheres: Catalytic Oxidation of Methanol at Low Temperatures. Catalysis Letters, 0, , .	1.4	0
752	Simultaneous adsorption of selected VOCs in the gas environment by low-cost adsorbent from Ricinus communis. Carbon Letters, 2022, 32, 1781-1789.	3.3	14
753	Roles of Ru on the V ₂ O ₅ –WO ₃ /TiO ₂ Catalyst for the Simultaneous Purification of NO <i>_x/i> and Chlorobenzene: A Dechlorination Promoter and a Redox Inductor. ACS Catalysis, 2022, 12, 11505-11517.</i>	5.5	23
754	Construction of CuBi2O4/BiOBr/Biochar Z-Scheme Heterojunction for Degradation of Gaseous Benzene Under Visible Light. Catalysis Letters, 2023, 153, 2319-2330.	1.4	2
755	Insights into the Redox and Structural Properties of CoOx and MnOx: Fundamental Factors Affecting the Catalytic Performance in the Oxidation Process of VOCs. Catalysts, 2022, 12, 1134.	1.6	15
756	Metal-organic frameworks templated micropore-enriched defective MnCeOx for low temperature chlorobenzene oxidation. Applied Catalysis A: General, 2022, 645, 118845.	2.2	8
757	Infrared-to-visible upconversion enhanced photothermal catalytic degradation of toluene over Yb3+, Er3+: CeO2/attapulgite nanocomposite: Effect of rare earth doping. Journal of Industrial and Engineering Chemistry, 2022, 116, 504-514.	2.9	9
758	Evaluation of the Flexibility for Catalytic Ozonation of Dichloromethane over Urchin-Like CuMnO _{<i>x</i>} in Flue Gas with Complicated Components. Environmental Science & Technology, 2022, 56, 13379-13390.	4.6	11

#	Article	IF	CITATIONS
759	A novel hollow microsphere composite MnOx/PAA: effective catalyst for ozone decomposition at high humidity. Environmental Science and Pollution Research, 2023, 30, 17994-18013.	2.7	2
760	One-step synthesis of transition metal modified UiO-66-Ce metal-organic framework: Catalytic oxidation of toluene and investigation of the mechanism. Microporous and Mesoporous Materials, 2022, 345, 112214.	2.2	11
761	Ce doped SnO/SnO2 heterojunctions for highly formaldehyde gas sensing at low temperature. Sensors and Actuators B: Chemical, 2022, 373, 132640.	4.0	17
762	Modulating defective oxygen of Co-based crystals by calcination temperature control for improving the catalytic removal of propane. CrystEngComm, 2022, 24, 7902-7905.	1.3	2
763	Defect Engineering on CuMn ₂ O ₄ Spinel Surface: A New Path to High-Performance Oxidation Catalysts. Environmental Science & Technology, 2022, 56, 16249-16258.	4.6	23
764	Catalytic Oxidative Decomposition of Dimethyl Methyl Phosphonate over CuO/CeO2 Catalysts Prepared Using a Secondary Alkaline Hydrothermal Method. Catalysts, 2022, 12, 1277.	1.6	2
765	Rationally Engineering a CuO/Pd@SiO ₂ Core–Shell Catalyst with Isolated Bifunctional Pd and Cu Active Sites for <i>n</i> Butylamine Controllable Decomposition. Environmental Science & Technology, 2022, 56, 16189-16199.	4.6	9
766	Fabricating PdCe/OMS-2 catalysts with boosted low-temperature activity for toluene deep degradation. Journal of Rare Earths, 2023, 41, 839-849.	2.5	6
767	The Synthesis of Cu–Mn–Al Mixed-Oxide Combustion Catalysts by Co-Precipitation in the Presence of Starch: A Comparison of NaOH with Organic Precipitants. Catalysts, 2022, 12, 1159.	1.6	1
768	Pd/Î ⁻ MnO2 nanoflower arrays cordierite monolithic catalyst toward toluene and o-xylene combustion. Frontiers in Chemistry, 0, 10, .	1.8	1
769	Tuning the Micro-coordination Environment of Al in Dealumination Y Zeolite to Enhance Electron Transfer at the Cu–Mn Oxides Interface for Highly Efficient Catalytic Ozonation of Toluene at Low Temperatures. Environmental Science & Technology, 2022, 56, 15449-15459.	4.6	20
770	Efficient SERS Response of Porous-ZnO-Covered Gold Nanoarray Chips to Trace Benzene–Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2022, 14, 47999-48010.	4.0	11
771	Selective Oxidation of Toluene to Benzaldehyde Using Co-ZIF Nano-Catalyst. International Journal of Molecular Sciences, 2022, 23, 12881.	1.8	2
772	PdPty/V2O5-TiO2: Highly Active Catalysts with Good Moisture- and Sulfur Dioxide-Resistant Performance in Toluene Oxidation. Catalysts, 2022, 12, 1302.	1.6	8
773	Characterization and kinetics of a novel ionic liquid/doped-TiO2 visible-light photocatalyst for degradation of VOCs. Journal of Materials Science: Materials in Electronics, 2022, 33, 25619-25634.	1.1	2
774	Recent progresses on single-atom catalysts for the removal of air pollutants. Frontiers in Chemistry, 0, 10, .	1.8	0
775	Ni-Mn spinel aerogel catalysts with adsorption induced superior activity for Low-Temperature toluene oxidation. Chemical Engineering Journal, 2023, 454, 140039.	6.6	14
776	The Synergistic Catalysis of Chloroaromatic Organics and NOx over Monolithic Vanadium-Based Catalysts at Low Temperature. Catalysts, 2022, 12, 1342.	1.6	0

#	Article	IF	CITATIONS
777	Effect of the acid site in the catalytic degradation of volatile organic compounds: A review. Chemical Engineering Journal, 2023, 454, 140125.	6.6	23
778	Enhancement of PdV/TiO2 catalyst for low temperature DCM catalytic removal and chlorine poisoning resistance by oxygen vacancy construction. Chemical Engineering Science, 2022, 264, 118126.	1.9	5
779	Promoting effect of reduction-oxidation strategy on the Co3O4/γ-Al2O3 catalysts for propane total oxidation. Molecular Catalysis, 2022, 533, 112762.	1.0	2
780	Cu-doped Co3O4 spinel on cordierite monolithic for catalytic oxidation of VOCs. Chemical Physics Impact, 2022, 5, 100115.	1.7	6
781	Enhanced low temperature catalytic activity for toluene oxidation over core-shell LaMnO3@α-MnO2 catalyst with oxygen vacancies. Chemical Physics Impact, 2022, 5, 100117.	1.7	1
782	Defect engineering in heterogeneous catalytic oxidation catalysts for air pollution elimination: A review of recent progress and strategies. Journal of Environmental Chemical Engineering, 2022, 10, 108734.	3.3	8
783	From theory to experiment: Screening of heterogeneous Fenton catalysts for VOCs removal. Fuel, 2023, 332, 126255.	3.4	3
784	Boosting acetone oxidation performance over mesocrystal MxCe1-xO2 (M = Ni, Cu, Zn) solid solution within hollow spheres by tailoring transition-metal cations. Materials Chemistry and Physics, 2023, 293, 126925.	2.0	4
785	High-efficiency destruction of aromatic VOC mixtures in a MoS2 cocatalytic Fe3+/PMS reaction. Separation and Purification Technology, 2023, 305, 122444.	3.9	8
786	Generation of abundant oxygen vacancies in Fe doped δ-MnO2 by a facile interfacial synthesis strategy for highly efficient catalysis of VOCs oxidation. Chemical Engineering Journal, 2023, 452, 139657.	6.6	25
787	Facile and rapid synthesis of hierarchical LDHs array by universal molten salt with bound water toward efficient oxygen evolution electrocatalysis. Chemical Engineering Journal, 2023, 452, 139686.	6.6	3
788	Insights into synergistic oxidation mechanism of Hg0 and chlorobenzene over MnCo2O4 microsphere with oxygen vacancy and acidic site. Journal of Hazardous Materials, 2023, 443, 130179.	6.5	20
789	Photothermal synergistic catalytic oxidation of ethyl acetate over MOFs-derived mesoporous N-TiO2 supported Pd catalysts. Applied Catalysis B: Environmental, 2023, 322, 122075.	10.8	45
790	Engineering the microenvironment of Pd nanoparticles on porous MnOx matrix to improve catalytic toluene combustion. Applied Catalysis A: General, 2023, 649, 118947.	2.2	4
791	Catalytic efficient destruction of chlorobenzene and 1,2-dichlorobenzene over La0.9Sr0.1MnO3 engineered by a scalable surface reconstruction strategy. Fuel, 2023, 334, 126564.	3.4	2
792	Construction of Z-scheme Ag/AgCl/Bi2WO6 photocatalysts with enhanced visible-light photocatalytic performance for gaseous toluene degradation. Applied Surface Science, 2023, 610, 155598.	3.1	23
793	Nitrogen-doped porous biochar for selective adsorption of toluene under humid conditions. Fuel, 2023, 334, 126452.	3.4	22
794	Improving the Sensitivity of Fourier Transform Mass Spectrometer (Orbitrap) for Online Measurements of Atmospheric Vapors. Analytical Chemistry, 2022, 94, 15746-15753.	3.2	5

#	Δρτιςι ε	IF	CITATIONS
π 795	Photocatalytic Oxidation for Volatile Organic Compounds Elimination: From Fundamental Research	4.6	32
	to Practical Applications. Environmental Science wamp, reciniology, 2022, 36, 16362-16601.		
796	Enhanced plasma-catalytic oxidation of methanol over MOF-derived CeO2 catalysts with exposed active sites. Journal of Environmental Chemical Engineering, 2022, 10, 108981.	3.3	3
797	Chlorine-Coordinated Pd Single Atom Enhanced the Chlorine Resistance for Volatile Organic Compound Degradation: Mechanism Study. Environmental Science & Technology, 2022, 56, 17321-17330.	4.6	106
798	Emission characteristics, risk assessment and scale effective control of VOCs from automobile repair industry in Beijing. Science of the Total Environment, 2023, 860, 160115.	3.9	4
799	Low-Temperature Catalytic Ozonation of Multitype VOCs over Zeolite-Supported Catalysts. International Journal of Environmental Research and Public Health, 2022, 19, 14515.	1.2	6
801	Captureâ€bonding superassembly of nanoscale dispersed bimetal on uniform CeO2 nanorod for the toluene oxidation. Chemistry - an Asian Journal, 0, , .	1.7	1
803	Enhanced Catalytic Performance and Sulfur Dioxide Resistance of Reduced Graphene Oxide-Promoted MnO2 Nanorods-Supported Pt Nanoparticles for Benzene Oxidation. Catalysts, 2022, 12, 1426.	1.6	3
804	Boosting the plasma catalytic performance of CeO2/γ-Al2O3 in long-chain alkane VOCs via tuning the crystallite size. Applied Surface Science, 2023, 611, 155742.	3.1	7
805	Recent advances of photocatalytic degradation for BTEX: Materials, operation, and mechanism. Chemical Engineering Journal, 2023, 455, 140461.	6.6	21
806	Localized Electric Fieldâ€Induced Efficient Photocatalytic Oxidation over Cuâ€Doped WO ₃ Nanofibers with Strong Dopant/Matrix Interaction. ChemCatChem, 2023, 15, .	1.8	4
807	Quasi-In Situ Synthesis of Ag NPs@m-MIL-100(Fe) for the Enhanced Photocatalytic Elimination of Flowing Xylenes. ACS Applied Materials & Interfaces, 2022, 14, 52894-52906.	4.0	3
808	Advances in catalytic elimination of atmospheric pollutants by two-dimensional transition metal oxides. Chinese Chemical Letters, 2023, 34, 108000.	4.8	1
809	Highly Efficient Oxidation of Propane at Low Temperature over a Pt-Based Catalyst by Optimization Support. Environmental Science & amp; Technology, 2022, 56, 17278-17287.	4.6	64
810	Review on Catalytic Oxidation of VOCs at Ambient Temperature. International Journal of Molecular Sciences, 2022, 23, 13739.	1.8	5
811	Identifying the surface active sites of FeOx-modified Pt/Nb2O5 catalysts in CO and propane oxidation. Applied Catalysis A: General, 2023, 649, 118960.	2.2	10
812	Study of catalytic oxidation of toluene using Cu-Mn, Co-Mn and Ni-Mn mixed oxides catalysts. Chemical Industry and Chemical Engineering Quarterly, 2023, 29, 243-252.	0.4	0
813	Effects of Ti modified CeCu mixed oxides on the catalytic performance and SO2 resistance towards benzene combustion. Catalysis Communications, 2023, 174, 106596.	1.6	3
814	Enhanced catalytic activity of toluene oxidation over in-situ prepared Mn3O4-Fe2O3 with acid-etching treatment. Catalysis Communications, 2023, 174, 106581.	1.6	10

#	Article	IF	CITATIONS
815	Construction of novel Heat-conducting Cu-based MOF nanocomposite (HK-mBNNS/PVDF) film for highly efficient Ad-/desorption of toluene. Chemical Engineering Journal, 2023, 456, 140964.	6.6	6
816	Efficient adsorption of Congo red by MIL-53(Fe)/chitosan composite hydrogel spheres. Microporous and Mesoporous Materials, 2023, 348, 112404.	2.2	19
817	Exploration of atomic interfaces with inherent oxygen vacancies in zirconia for toluene oxidation. Journal of Materials Chemistry A, 2022, 11, 287-296.	5.2	9
818	Microporous three dimensional ordered zeolite-templated carbon for efficient removal of VOCs: Experimental study and molecular dynamics simulation. Fuel, 2023, 334, 126849.	3.4	4
819	The remarkable oxidation of trichloroethylene in a post-plasma-catalytic system over Ag-Mn-Ce/HZSM-5 catalysts. Fuel, 2023, 334, 126746.	3.4	5
820	Understanding the mechanisms of catalytic enhancement of La-Sr-Co-Fe-O perovskite-type oxides for efficient toluene combustion. Journal of Environmental Chemical Engineering, 2023, 11, 109050.	3.3	5
821	Enhanced reactivity of methane combustion over Si-modified MgAl2O4 supported PdO catalysts. Journal of the Energy Institute, 2023, 106, 101152.	2.7	3
822	Low-temperature toluene oxidation on Ag/CexZr1-xO2 monolithic catalysts: Synergistic catalysis of silver and ceria-zirconia. Combustion and Flame, 2023, 248, 112577.	2.8	2
823	Cerium doped Zr-based metal-organic framework as catalyst for direct synthesis of dimethyl carbonate from CO2 and methanol. Journal of CO2 Utilization, 2023, 68, 102352.	3.3	12
824	Broccoli-shaped Cu-BTC/biochar composite with enhanced water stability for toluene adsorption: Influence of humid air aging. Fuel, 2023, 335, 127013.	3.4	5
825	Low-temperature selective catalytic reduction of NOx with NH3 over in-situ grown MnOx-Fe2O3/TiO2/Ti monolithic catalyst. Journal of Alloys and Compounds, 2023, 938, 168481.	2.8	9
826	Birnessite MnO2 supported on CNTs in-situ for low-temperature oxidation of ethyl acetate. , 2022, 1, .		5
827	Simultaneously Constructing Active Sites and Regulating Mn–O Strength of Ruâ€Substituted Perovskite for Efficient Oxidation and Hydrolysis Oxidation of Chlorobenzene. Advanced Science, 2023, 10, .	5.6	13
828	Airborne Preparation of Small Cold Nanoparticles Dispersed on Mesoporous Silica for the Catalytic Oxidation of Glycerol to Dihydroxyacetone. ACS Applied Nano Materials, 2022, 5, 18977-18985.	2.4	6
829	<i>In Situ</i> Fabrication of Highly Dispersed Co–Fe-Doped-Î-MnO ₂ Catalyst by a Facile Redox-Driving MOFs-Derived Method for Low-Temperature Oxidation of Toluene. ACS Applied Materials & Interfaces, 2022, 14, 53872-53883.	4.0	8
830	Gaseous formaldehyde adsorption by eco-friendly, porous bamboo carbon microfibers obtained by steam explosion, carbonization, and plasma activation. Chemical Engineering Journal, 2023, 455, 140686.	6.6	10
831	Biomass-derived porous carbons for sorption of Volatile organic compounds (VOCs). Fuel, 2023, 336, 126801.	3.4	24
832	Utilisation of waste Cu-, Mn- and Fe-loaded zeolites generated after wastewater treatment as catalysts for air treatment. Frontiers in Chemistry, 0, 10, .	1.8	2

#	Article	IF	CITATIONS
833	Rational Design of Bimetal Mn-Ce Nanosheets Anchored on Porous Nano-sized ZSM-5 Zeolite for Adsorption-Enhanced Catalytic Oxidation of Toluene. Industrial & Engineering Chemistry Research, 2022, 61, 18382-18389.	1.8	5
834	A Systematical Comparison of Catalytic Behavior of NM/Ĵ³-Al2O3 (NM = Ru, Rh, Pt, Pd, Au, Ir) on 1,2-Dichloroethane Oxidation: Distributions of By-Products and Reaction Mechanism. Applied Sciences (Switzerland), 2023, 13, 36.	1.3	2
835	Gadolinium-doped mesoporous tungsten oxides: Rational synthesis, gas sensing performance, and mechanism investigation. Nano Research, 2023, 16, 7527-7536.	5.8	3
836	Catalytic Degradation of Toluene over MnO2/LaMnO3: Effect of Phase Type of MnO2 on Activity. Catalysts, 2022, 12, 1666.	1.6	2
837	Study of physical adsorption of aromatic molecules on hydroxylated α-SiO2 (001) surface using dispersion-corrected density functional theory. Computational and Theoretical Chemistry, 2022, , 113991.	1.1	1
838	Catalytic Combustion of Propane over Ce-Doped Lanthanum Borate Loaded with Various 3d Transition Metals. Catalysts, 2022, 12, 1632.	1.6	0
839	An Overview of Volatile Organic Compounds (VOCs). Resonance - Journal of Science Education, 2022, 27, 2183-2211.	0.2	0
840	Synergistic Catalytic Oxidation of Typical Volatile Organic Compound Mixtures on Mn-Based Catalysts: Significant Promotion Effect and Reaction Mechanism. Environmental Science & Technology, 2023, 57, 1123-1133.	4.6	16
841	Efficient toluene oxidation by post plasma catalysis over hollow Co3O4 nanospheres. Research on Chemical Intermediates, 2023, 49, 1015-1028.	1.3	1
842	Preparation and Performance of Carbon-Based Ce-Mn Catalysts for Efficient Degradation of Acetone at Low Temperatures. International Journal of Environmental Research and Public Health, 2022, 19, 16879.	1.2	2
843	Thermal-Driven Optimization of the Strong Metal–Support Interaction of a Platinum–Manganese Oxide Octahedral Molecular Sieve to Promote Toluene Oxidation: Effect of the Interface Pt ²⁺ –O _v –Mn ^{δ<i>+</i>} . ACS Applied Materials & Interfaces, 2022, 14, 56790-56800.	4.0	10
844	Unveiling the Balance between Catalytic Activity and Water Resistance over Co ₃ O ₄ Catalysts for Propane Oxidation: The Role of Crystal Facet and Oxygen Vacancy. ACS Catalysis, 2023, 13, 237-247.	5.5	20
845	Electrocatalytic Properties of Perovskites and Their Nanocomposites. ACS Symposium Series, 0, , 151-189.	0.5	1
846	Improved activity and stability for chlorobenzene oxidation over ternary Cu-Mn–O-Ce solid solution supported on cordierite. Environmental Science and Pollution Research, 2023, 30, 37535-37546.	2.7	2
847	Development of Quinary Layered Double Hydroxide-Derived High-Entropy Oxides for Toluene Catalytic Removal. Catalysts, 2023, 13, 119.	1.6	2
848	Boosting the Catalytic Performance of Volatile Organic Compound Oxidation Over Platelike MnO ₂ /CoAlO Catalyst by Weakening the Co–O Bond and Accelerating Oxygen Activation. ACS Catalysis, 2023, 13, 1492-1502.	5.5	12
849	Catalytic reduction of NO and oxidation of dichloroethane over α-MnO2 catalysts: properties-reactivity relationship. Arabian Journal of Chemistry, 2023, , 104587.	2.3	1
850	Expediting Toluene Combustion by Harmonizing the Ce–O Strength over Co-Doped CeZr Oxide Catalysts. Environmental Science & Technology, 2023, 57, 1797-1806.	4.6	30

ARTICLE IF CITATIONS Close-Contact Oxygen Vacancies Synthesized by FSP Promote the Supplement of Active Oxygen Species 851 1.6 2 To Improve the Catalytic Combustion Performance of Toluene. Langmuir, 2023, 39, 1093-1102. Fenton-like Cerium Metal–Organic Frameworks (Ce-MOFs) for CatalyticÂOxidation of Olefins, Alcohol, 1.7 and Dyes Degradation. Journal of Cluster Science, 2023, 34, 2509-2519. Enhanced toluene oxidation by photothermal synergetic catalysis on manganese oxide embedded with 853 5.0 7 Pt single-atoms. Journal of Colloid and Interface Science, 2023, 636, 577-587. Autothermal Reforming of Volatile Organic Compounds to Hydrogen-Rich Gas. Molecules, 2023, 28, 854 752. Multiple statistical models reveal specific volatile organic compounds affect sex hormones in 855 1.52 American adult male: NHANES 2013–2016. Frontiers in Endocrinology, 0, 13, . Synthesis of MnO from pectin-driven sol-gel route for catalytic oxidation of toluene. Jcis Open, 2023, 9, 100076. 1.5 The Influence of Cerium to Manganese Ratio and Preparation Method on the Activity of 857 1.6 3 Ceria-Manganese Mixed Metal Öxide Catalysts for VOC Total Oxidation. Catalysts, 2023, 13, 114. Heterobimetallic CoCeO derived from cobalt partially-substituted Ce-UiO-66 for chlorobenzene 2.5 9 efficient catalytic destruction. Journal of Rare Earths, 2023, 41, 810-819. Regulating CeO2 morphologies on the catalytic oxidation of toluene at lower temperature: A study of 859 3.130 the structure–activity relationship. Journal of Catalysis, 2023, 418, 151-162. Reduced graphene oxide composite aerogel prepared by europium-assisting radiation reduction as a 5.2 broad-spectrum adsorbent for organic pollutants. Journal of Materials Chemistry A, 0, , . Ambient sunlight-driven high performance chlorinated volatile organic compound oxidation by Cu_{0.15}Mn_{0.15}Ce_{0.7}O<sub><i>x</i>sub> hollow spheres. 861 3 2.1 Catalysis Science and Technology, 2023, 13, 1173-1179. V-Cu bimetallic oxide supported catalysts for synergistic removal of toluene and NOx from coal-fired 6.6 flue gas: The crucial role of support. Ćhemical Éngineering Journal, 2023, 458, 141443. Progress of catalytic oxidation of typical chlorined volatile organic compounds (CVOCs): A review. 863 3.9 8 Science of the Total Environment, 2023, 865, 161063. Structure-property-performance relationship of transition metal doped WO3 mixed oxides for 864 4.2 catalytic degradation of organic pollutants. Chemosphere, 2023, 316, 137797. La doping of manganese oxide leads to a dramatically promoted catalytic performance for UVâ€^t'visible-infrared photothermocatalytic ethyl acétate abatement. Applied Surface Science, 2023, 615, 865 3.1 3 156334. Fabrication of Î3-Al₂O₃ Nanoarrays on Aluminum Foam Assisted by Hydroxide for Monolith Catalysts. ACS Omega, 2023, 8, 1643-1651. The role of cationic defects in boosted lattice oxygen activation during toluene total oxidation over 867 2.24 nano-structured CoMnO_{<i>x</i>} spinel. Environmental Science: Nano, 2023, 10, 812-823. Effective Toluene Ozonation over Î'-MnO₂: Oxygen Vacancy-Induced Reactive Oxygen Species. Environmental Science & amp; Technology, 2023, 57, 2918-2927.

#	Article	IF	CITATIONS
869	CeO2 supported MOFs derived LaBxFeyO3 (B=Mn, Co) perovskite catalysts for degradation of toluene. Environmental Science and Pollution Research, 0, , .	2.7	0
870	Cubic CuFe ₂ O ₄ Spinel with Octahedral Fe Active Sites for Electrochemical Dechlorination of 1,2-Dichloroethane. ACS Applied Materials & amp; Interfaces, 2023, 15, 6631-6638.	4.0	6
871	Synthesis of Cu-Doped TiO2 on Wood Substrate with Highly Efficient Photocatalytic Performance and Outstanding Recyclability for Formaldehyde Degradation. Molecules, 2023, 28, 972.	1.7	1
872	TiO ₂ -based catalytic systems for the treatment of airborne aromatic hydrocarbons. Materials Horizons, 2023, 10, 1559-1579.	6.4	4
873	Design ordered mesoporous confinement Pt/Ti0.1AlOy catalysts for the propane catalytic combustion. New Journal of Chemistry, 0, , .	1.4	0
874	Efficient degradation of metronidazole wastewater over MIL-101(Fe) Fenton catalysts. New Journal of Chemistry, 2023, 47, 4973-4983.	1.4	4
875	Research Progress on Catalytic Combustion of Volatile Organic Compounds in Industrial Waste Gas. Catalysts, 2023, 13, 268.	1.6	5
876	Fabrication of Hierarchical Porous Metal Oxides by the HPMC-Assisted Gel Combustion Strategy: Incorporation of Nanoceria into Cookie-like Mn ₂ O ₃ with Enhanced Oxidation Activity and Excellent Water Resistance. Industrial & Engineering Chemistry Research, 2023, 62, 1839-1851	1.8	1
877	Pt/CeMnOx/Diatomite: A Highly Active Catalyst for the Oxidative Removal of Toluene and Ethyl Acetate. Catalysts, 2023, 13, 676.	1.6	2
879	Efficient photothermal conversion for oxidation removal of formaldehyde using an rGO-CeO2 modified nickel foam monolithic catalyst. Separation and Purification Technology, 2023, 311, 123236.	3.9	19
880	Effect of annealing conditions on the physicochemical and photocatalytic properties of a nanopowder based on Fe2TiO5. Materials Chemistry and Physics, 2023, 299, 127493.	2.0	0
881	Construction of Pt-MnO2 interface with strong electron coupling effect for plasma catalytic oxidation of aromatic VOCs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 665, 131248.	2.3	3
882	Efficient catalytic oxidation of chlorinated volatile organic compounds over RuO2-WOx/Sn0.2Ti0.8O2 catalysts: Insight into the Cl poisoning mechanism of acid sites. Chemical Engineering Journal, 2023, 464, 142471.	6.6	5
883	Abatement of CO and light alkanes on the heterostructured catalysts: Insights into the interfacial effect. Chemical Engineering Journal, 2023, 464, 142527.	6.6	2
884	A universal numerical evaluation strategy for photocatalysts based on the photoelectron transfer (PET) restriction effect: A review. Chemical Engineering Journal, 2023, 463, 142421.	6.6	5
885	Boosting solar-driven volatile organic compounds desorption via the synergy of NH2-UiO-66 with hollow polypyrrole nanotube. Chemical Engineering Journal, 2023, 464, 142503.	6.6	8
886	Boosting diethylamine selective oxidation over CuO/ZSM-5 catalyst by CeO2 modification. Fuel, 2023, 342, 127792.	3.4	7
887	Acid-etched spinel CoMn2O4 with highly active surface lattice oxygen species for significant improvement of catalytic performance of VOCs oxidation. Chemical Engineering Journal, 2023, 463, 142316	6.6	18

#	Article	IF	Citations
888	Accelerating the photocatalytic degradation of toluene by unidirectional electron transfer via FRET strategy. Chemical Physics Impact, 2023, 6, 100168.	1.7	1
889	Revealing opposite behaviors of catalyst for VOCs Oxidation: Modulating electronic structure of Pt nanoparticles by Mn doping. Chemical Engineering Journal, 2023, 465, 142807.	6.6	11
890	Insights into the reaction mechanism of toluene oxidation by isotope dynamic experiment and the kinetics over MCeZr/TiO2 (MÂ=ÂCu, Mn, Ni, Co and Fe) catalysts. Fuel, 2023, 341, 127760.	3.4	12
891	Improved catalytic oxidation of propane over phosphate-modified Pd/Al2O3-TiO2 catalyst. Journal of Environmental Chemical Engineering, 2023, 11, 109569.	3.3	2
892	Optimization of Co3O4 surface sites for photo-ozone catalytic mineralization of dichloromethane. Journal of Hazardous Materials, 2023, 452, 131275.	6.5	4
893	Catalytic ozonation of methylethylketone over porous Mn–Cu/HZSM-5. Environmental Research, 2023, 227, 115706.	3.7	1
894	Synergistic double doping of Co and Cu constructs multiple active sites to achieve catalyzed degradation of toluene at high humidity. Fuel, 2023, 342, 127875.	3.4	12
895	A systematic review of intermediates and their characterization methods in VOCs degradation by different catalytic technologies. Separation and Purification Technology, 2023, 314, 123510.	3.9	49
896	Heterointerface engineering regulating the energy-level configuration of α-MnO2/δ-MnO2 for enhancing toluene catalytic combustion performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2023, 666, 131302.	2.3	3
897	Plasma-catalysis for VOCs decomposition: A review on micro- and macroscopic modeling. Journal of Hazardous Materials, 2023, 451, 131100.	6.5	16
898	Glycerol-modified Ce-Co catalysts for efficient degradation of dichloromethane: Physicochemical properties and reaction pathways. Journal of Environmental Chemical Engineering, 2023, 11, 109811.	3.3	0
899	Advanced high-iron coal fly ash zeolites for low-carbon emission catalytic combustion of VOCs. Catalysis Today, 2023, 418, 114109.	2.2	6
900	The influence of Ce doping on catalytic oxidation of toluene over Co3O4/iron mesh monolithic catalyst. Catalysis Today, 2023, 418, 114107.	2.2	4
901	Construction of mesoporous Ru@ZSM-5 catalyst for dichloromethane degradation: Synergy between acidic sites and redox centres. Fuel, 2023, 346, 128337.	3.4	4
902	Boosting simultaneous catalytic removal of NOx and toluene via cooperation of Lewis acid and oxygen vacancies. Applied Catalysis B: Environmental, 2023, 331, 122696.	10.8	18
903	Unravelling the critical role of silanol in Pt/SiO2 for room temperature HCHO oxidation: An experimental and DFT study. Applied Catalysis B: Environmental, 2023, 331, 122672.	10.8	6
904	Review on NH3-SCR for simultaneous abating NOx and VOCs in industrial furnaces: Catalysts' composition, mechanism, deactivation and regeneration. Fuel Processing Technology, 2023, 247, 107773.	3.7	12
905	Porous graphitized carbon-supported FeOCl as a bifunctional adsorbent-catalyst for the wet peroxide oxidation of chlorinated volatile organic compounds: Effect of mesopores and mechanistic study. Applied Catalysis B: Environmental, 2023, 330, 122659.	10.8	5

#	Article	IF	Citations
906	Plasma-reconstructed LaMnO3 nanonetwork supported palladium catalyst for methane catalytic combustion. Journal of Environmental Chemical Engineering, 2023, 11, 109825.	3.3	6
907	Promotional effects of Ag on catalytic combustion of cyclohexane over PdAg/Ti-SBA-15. Journal of Catalysis, 2023, 421, 77-87.	3.1	6
908	Low-temperature gas-phase toluene catalytic combustion over modified CoCr2O4 spinel catalysts: Effect of Co/Cr content and calcination temperature. Applied Catalysis A: General, 2023, 657, 119162.	2.2	5
909	Single-atom Pt-CeO2/Co3O4 catalyst with ultra-low Pt loading and high performance for toluene removal. Journal of Colloid and Interface Science, 2023, 641, 972-980.	5.0	12
910	Oxygen vacancy promoted H2O activation over K+-doped Îμ-MnO2 for low-temperature HCHO oxidation. Applied Surface Science, 2023, 624, 157127.	3.1	2
911	Tuning the Cu/Ce Ratio for Improved Benzene Oxidation over Gold-Promoted Alumina-Supported CuO-CeO2. Symmetry, 2023, 15, 263.	1.1	2
912	Design of confined catalysts and applications in environmental catalysis: Original perspectives and further prospects. Journal of Cleaner Production, 2023, 390, 136125.	4.6	6
913	Highly improved acetone oxidation performance over hierarchical CuO/Î^-MnO2 microflowers. Inorganic Chemistry Communication, 2023, 149, 110431.	1.8	2
914	Synthesis of TS-1 encapsulated Pt (Pt@TS-1) catalyst with hierarchical pores and its enhanced performance in the oxidation of toluene. Microporous and Mesoporous Materials, 2023, 350, 112464.	2.2	4
915	Discerning and modulating critical surface active sites for propane and CO oxidation over Co3O4 based catalyst. Applied Surface Science, 2023, 617, 156572.	3.1	7
916	Experimental study on heating performance of air source heat pump fresh air unit with fresh air and return air mixing in severe cold regions. Energy and Buildings, 2023, 283, 112839.	3.1	5
917	Mechanistic Insights into the Oxidative Degradation of Formic and Oxalic Acids with Ozone and OH Radical. A Computational Rationale. Journal of Physical Chemistry A, 2023, 127, 1491-1498.	1.1	2
918	Tuning the Surface Mn/Al Ratio and Crystal Crystallinity of Mn–Al Oxides by Calcination Temperature for Excellent Acetone Low-Temperature Mineralization. ACS ES&T Engineering, 2023, 3, 487-499.	3.7	5
919	Gasâ€phase degradation of VOCs using supported bacteria biofilms. Biotechnology and Bioengineering, 2023, 120, 1323-1333.	1.7	Ο
920	Review and Perspectives of Enhancement in the Catalytic Stability for the Complete Combustion of CO, CH ₄ , and Volatile Organic Compounds. Energy & Fuels, 2023, 37, 3590-3604.	2.5	12
921	Pt–Co bimetals supported on UiO-66 as efficient and stable catalysts for the catalytic oxidation of various volatile organic compounds. Materials Today Chemistry, 2023, 29, 101403.	1.7	0
922	Emission Control of Toluene in Iron Ore Sintering Using Catalytic Oxidation Technology: A Critical Review. Catalysts, 2023, 13, 429.	1.6	1
923	Unveiling geometric and electronic effects of Pt species on water-tolerant Pt/ZSM-5 catalyst for propane oxidation. Applied Catalysis A: General, 2023, 655, 119108.	2.2	6

#	Article	IF	CITATIONS
924	Engineering light propagation for synergetic photo- and thermocatalysis toward volatile organic compounds elimination. Chemical Engineering Journal, 2023, 461, 142022.	6.6	11
925	Solvent-induced fabrication of Cu/MnOx nanosheets with abundant oxygen vacancies for efficient and long-lasting photothermal catalytic degradation of humid toluene vapor. Applied Catalysis B: Environmental, 2023, 328, 122509.	10.8	23
926	Effect of Electronic Structure over Late Transition-Metal M ₁ –N ₄ Single-Atom Sites on Hydroxyl Radical-Induced Oxidations. ACS Catalysis, 2023, 13, 3308-3316.	5.5	5
927	Polystyrene Resins: Versatile and Economical Support for Heterogeneous Nanocatalysts in Sustainable Organic Reactions**. ChemCatChem, 2023, 15, .	1.8	1
928	Surface-Modified CeO ₂ -Octahedron-Supported Pt Nanoparticles as Ethylene Scavengers for Fruit Preservation. ACS Applied Nano Materials, 2023, 6, 3738-3749.	2.4	6
929	Research status of volatile organic compound (VOC) removal technology and prospect of new strategies: a review. Environmental Sciences: Processes and Impacts, 2023, 25, 727-740.	1.7	9
930	Probing the Actual Role and Activity of Oxygen Vacancies in Toluene Catalytic Oxidation: Evidence from In Situ XPS/NEXAFS and DFT + <i>U</i> Calculation. ACS Catalysis, 2023, 13, 3444-3455.	5.5	20
931	Regulating Pt-based noble metal catalysts for the catalytic oxidation of volatile organic compounds: a mini review. Reviews in Inorganic Chemistry, 2022, .	1.8	1
932	Confinement effect and Hetero-interface enable High-Performing MnOx/CeO2 oxidation catalysts with exceptional sintering resistance:Morphology effect of ceria support. Chemical Engineering Journal, 2023, 462, 142257.	6.6	7
933	Manganese-Cerium Based Catalysts for Toluene Oxidation at Low Temperture. Transactions of the Korean Society of Automotive Engineers, 2023, 31, 165-171.	0.1	0
934	Catalytic oxidation of toluene over V, Ce and Mo doped Cu/Î ³ -Al2O3 in SO2-containing flue gas: Study of metal doping effect and reaction pathway. Fuel, 2023, 344, 128038.	3.4	2
935	Bimetallic oxide Cu ₂ O@MnO ₂ with exposed phase interfaces for dual-effect purification of indoor formaldehyde and pathogenic bacteria. Nanoscale Advances, 2023, 5, 2027-2037.	2.2	2
936	An efficient Mn1-yCeyOx composite oxide mesoporous catalysts for catalytic combustion of aromatic hydrocarbon. Atmospheric Pollution Research, 2023, 14, 101715.	1.8	1
937	Dualâ€Atomicâ€Site Catalysts for Molecular Oxygen Activation in Heterogeneous Thermoâ€/Electroâ€catalysis. Angewandte Chemie, 0, , .	1.6	0
938	Dualâ€Atomicâ€Site Catalysts for Molecular Oxygen Activation in Heterogeneous Thermoâ€fElectroâ€catalysis. Angewandte Chemie - International Edition, 2023, 62, .	7.2	12
939	Catalytic Oxidation of Volatile Organic Compounds Using the Core–Shell Fe2O3-Cenospheric Catalyst in a Fluidised Bed Reactor. Energies, 2023, 16, 2801.	1.6	1
940	Visible light controllable adsorption-desorption of gaseous toluene on Î ² -ketoenamine-linked porous organic polymer. Polymer, 2023, 273, 125867.	1.8	1
941	Mutual inhibition effects on the synchronous conversion of benzene, toluene, and xylene over MnOx catalysts. Journal of Colloid and Interface Science, 2023, 641, 791-802.	5.0	6

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#	Article	IF	CITATIONS
942	Promotion Effects of Ce-Doping on Catalytic Oxidation of Ethane over Pt/CexTi1â^'xO2. Catalysts, 2023, 13, 626.	1.6	1
943	Engineering Morphology and Ni Substitution of Ni <i>_x</i> Co _{3–<i>x</i>} O ₄ Spinel Oxides to Promote Catalytic Combustion of Ethane: Elucidating the Influence of Oxygen Defects. ACS Catalysis, 2023, 13, 4683-4699.	5.5	18
944	Catalytic Performance and Reaction Mechanisms of Ethyl Acetate Oxidation over the Au–Pd/TiO2 Catalysts. Catalysts, 2023, 13, 643.	1.6	2
945	Tail-Pipe Clean-Air Technologies. , 2023, , 1-68.		0
946	Catalytic properties of Cu-substituted LaMn1-yCuyO3 on styrene combustion. Reaction Kinetics, Mechanisms and Catalysis, 2023, 136, 805-822.	0.8	1
947	Quenching-Induced Defect-Rich Platinum/Metal Oxide Catalysts Promote Catalytic Oxidation. Environmental Science & Technology, 2023, 57, 5831-5840.	4.6	9
948	Ytterbium modified birnessite MnO2 for improving deep oxidation of toluene. Journal of Rare Earths, 2023, , .	2.5	2
949	Industrial Chlorinated Organic Removal with Elimination of Secondary Pollution: A Perspective. Journal of Physical Chemistry C, 2023, 127, 6610-6618.	1.5	15
950	Improved redox synthesis of Mn–Co bimetallic oxide catalysts using citric acid and their toluene oxidation activity. RSC Advances, 2023, 13, 11069-11080.	1.7	1
951	Construction of Pt decorated CeO2 nanocomposite for efficient VOCs catalytic oxidation and atmospheric total organic carbon dictation. Catalysis Communications, 2023, 177, 106663.	1.6	6
952	Photoâ€Activated Direct Catalytic Oxidation of Gaseous Benzene with a Cuâ€Connected Serial Heterojunction Array of Co ₃ O ₄ /Cu _x O/Foam Cu Assembled via Layer upon Layer Oxidation. Small, 2023, 19, .	5.2	1
953	Achieving Simplified and Tunable Flexibility in Carborane-Based Emitters for Quantitative Vapochromic VOC Sensing. Analytical Chemistry, 2023, 95, 6637-6645.	3.2	2
954	Synergistic effect of oxygen vacancies and edging/corner-connected MnO6 structural motifs in multi-dimensional manganese oxides to enhance OVOCs catalytic oxidation. Chinese Chemical Letters, 2023, , 108437.	4.8	0
955	Low-temperature deep oxidation of N, N-dimethylformamide (DMF) over CeCu binary oxides. Catalysis Science and Technology, 0, , .	2.1	0
956	Oxygen vacancies-enriched Fe-Cu bimetallic minerals-based magnetic biochar activated peroxydisulfate for durable sulfonamides degradation: pH-dependence adsorption and singlet oxygen evolution mechanism. Separation and Purification Technology, 2023, 317, 123866.	3.9	3
957	Fluorescence Enhancement of a Metalâ€Organic Framework for Ultraâ€Efficient Detection of Trace Benzene Vapor. Angewandte Chemie, 2023, 135, .	1.6	0
958	Fluorescence Enhancement of a Metalâ€Organic Framework for Ultraâ€Efficient Detection of Trace Benzene Vapor. Angewandte Chemie - International Edition, 2023, 62, .	7.2	15
959	Synergetic modulation of molecular oxygen activation and surface acidity/basicity on defective M/UiO-66m (M = Pt, Pd) for advanced oxidation of gaseous formaldehyde at room temperature. Applied Catalysis B: Environmental, 2023, 333, 122789.	10.8	10

#	Article	IF	CITATIONS
960	Boosting Ozone Catalytic Oxidation of Toluene at Room Temperature by Using Hydroxyl-Mediated MnO _{<i>x</i>} /Al ₂ O ₃ Catalysts. Environmental Science & Technology, 2023, 57, 7041-7050.	4.6	5
961	Oxidation mechanism of HCHO on copper-manganese composite oxides catalyst. Chemosphere, 2023, 330, 138754.	4.2	2
975	Hydrothermal treatment: an effective method to improve the catalytic activity of the Pt/ZSM-5 catalyst for complete benzene oxidation. Catalysis Science and Technology, 2023, 13, 3221-3225.	2.1	1
992	Recent Advances of VOCs Catalytic Oxidation over Spinel Oxides: Catalyst Design and Reaction Mechanism. Environmental Science & Technology, 2023, 57, 9495-9514.	4.6	8
1006	Environmental applications of single-atom catalysts based on graphdiyne. Catalysis Science and Technology, 2023, 13, 5154-5174.	2.1	2
1020	Catalytic combustion of volatile organic compounds using perovskite oxides catalysts—a review. Frontiers of Chemical Science and Engineering, 2023, 17, 1649-1676.	2.3	4
1068	â€~MXene' based functional materials for sensitive monitoring of â€~heavy metals (HMs)' and â€~volatile organic compounds (VOCs)': Towards health security. , 2023, , .		0
1070	Specific applications of the lanthanides. , 2023, , 649-741.		0
1076	Construction of cerium-based oxide catalysts with abundant defects/vacancies and their application to catalytic elimination of air pollutants. Journal of Materials Chemistry A, 2023, 11, 19210-19243.	5.2	1
1090	Application of Metal–Organic Framework Sponges for Toxic or Greenhouse Gas Adsorption. , 2023, , 219-246.		1
1094	Emerging Materials and Environment: AÂBrief Introduction. Challenges and Advances in Computational Chemistry and Physics, 2024, , 1-78.	0.6	0
1133	Tail-Pipe Clean-Air Technologies. , 2023, , 1409-1476.		0
1141	Advances in Semiconductor Photocatalyst Toward the Removal of Aromatic Volatile Organic Compounds in Air. Advances in Material Research and Technology, 2023, , 81-97.	0.3	0
1154	Carbon-based materials for electrochemical dechlorination. Nano Research, 2023, 16, 12543-12557.	5.8	2
1215	Iron Oxide-Based Heterogeneous Catalysts for Environmental Applications. Nanostructure Science and Technology, 2024, , 235-263.	0.1	0
1237	Application of Manganese Based Catalysts for VOCs Degradation: A Review. Lecture Notes in Electrical Engineering, 2024, , 448-454.	0.3	0

1288 Volatile organic compound sensing. , 2024, , 163-192.