Chi He

List of Publications by Year
in descending order

199	11,471	22153	38395
papers	citations	59 h-index	95 g-index

202	202	202	8061
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources. Chemical Reviews, 2019, 119, 4471-4568.	47.7	1,298
2	g-C3N4/UiO-66 nanohybrids with enhanced photocatalytic activities for the oxidation of dye under visible light irradiation. Materials Research Bulletin, 2018, 99, 349-358.	5.2	299
3	Catalytic oxidation of toluene over Pd/Co3AlO catalysts derived from hydrotalcite-like compounds: Effects of preparation methods. Applied Catalysis B: Environmental, 2011, 101, 570-579.	20.2	220
4	Gd-modified MnOx for the selective catalytic reduction of NO by NH3: The promoting effect of Gd on the catalytic performance and sulfur resistance. Chemical Engineering Journal, 2018, 348, 820-830.	12.7	170
5	Au nanodots@thiol-UiO66@ZnIn2S4 nanosheets with significantly enhanced visible-light photocatalytic H2 evolution: The effect of different Au positions on the transfer of electron-hole pairs. Applied Catalysis B: Environmental, 2021, 282, 119550.	20.2	170
6	Sphere-Shaped Mn₃O₄ Catalyst with Remarkable Low-Temperature Activity for Methylâ€“Ethylâ€“Ketone Combustion. Environmental Science & Technology, 2017, 51, 6288-6297.	10.0	165
7	Hollow MnOx-CeO 2 mixed oxides as highly efficient catalysts in NO oxidation. Chemical Engineering Journal, 2017, 322, 46-55.	12.7	149
8	Efficient propane low-temperature destruction by Co3O4 crystal facets engineering: Unveiling the decisive role of lattice and oxygen defects and surface acid-base pairs. Applied Catalysis B: Environmental, 2021, 283, 119657.	20.2	149
9	Low-temperature removal of toluene and propanal over highly active mesoporous CuCeOx catalysts synthesized via a simple self-precipitation protocol. Applied Catalysis B: Environmental, 2014, 147, 156-166.	20.2	147
10	High and stable catalytic activity of Ag/Fe 2 O 3 catalysts derived from MOFs for CO oxidation. Molecular Catalysis, 2018, 447, 80-89.	2.0	146
11	Synergistic effects and mechanism of a non-thermal plasma catalysis system in volatile organic compound removal: a review. Catalysis Science and Technology, 2018, 8, 936-954.	4.1	146
12	Seasonal variations and chemical compositions of PM2.5 aerosol in the urban area of Fuzhou, China. Atmospheric Research, 2012, 104-105, 264-272.	4.1	144
13	Au decorated hollow ZnO@ZnS heterostructure for enhanced photocatalytic hydrogen evolution: The insight into the roles of hollow channel and Au nanoparticles. Applied Catalysis B: Environmental, 2019, 244, 748-757.	20.2	144
14	In-situ phosphating to synthesize Ni2P decorated NiO/g-C3N4 p-n junction for enhanced photocatalytic hydrogen production. Chemical Engineering Journal, 2019, 378, 122161.	12.7	133
15	Microwave-Assisted Rapid Synthesis of Well-Shaped MOF-74 (Ni) for CO₂ Efficient Capture. Inorganic Chemistry, 2019, 58, 2717-2728.	4.0	133
16	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.	12.7	132
17	"Fast SCR" reaction over Sm-modified MnOx-TiO2 for promoting reduction of NOx with NH3. Applied Catalysis A: General, 2018, 564, 102-112.	4.3	130
18	Synthesis of octahedral like Cu-BTC derivatives derived from MOF calcined under different atmosphere for application in CO oxidation. Journal of Solid State Chemistry, 2018, 258, 582-587.	2.9	124

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19	Stabilizing platinum atoms on CeO2 oxygen vacancies by metal-support interaction induced interface distortion: Mechanism and application. Applied Catalysis B: Environmental, 2020, 278, 119304.	20.2	120
20	Enhanced antimonate (Sb(V)) removal from aqueous solution by La-doped magnetic biochars. Chemical Engineering Journal, 2018, 354, 623-632.	12.7	117
21	Microwave-assisted preparation of nitrogen-doped biochars by ammonium acetate activation for adsorption of acid red 18. Applied Surface Science, 2018, 433, 222-231.	6.1	116
22	Atomicâ€Scale Insights into the Lowâ€Temperature Oxidation of Methanol over a Singleâ€Atom Pt₁â€Co₃O₄ Catalyst. Advanced Functional Materials, 2019, 29, 1902041.	14.9	115
23	Trap-level-tunable Se doped CdS quantum dots with excellent hydrogen evolution performance without co-catalyst. Chemical Engineering Journal, 2019, 364, 11-19.	12.7	110
24	Facile Synthesis of Highly Efficient Amorphous Mnâ€MILâ€100 Catalysts: Formation Mechanism and Structure Changes during Application in CO Oxidation. Chemistry - A European Journal, 2018, 24, 8822-8832.	3.3	106
25	Comparative Studies on Porous Material-Supported Pd Catalysts for Catalytic Oxidation of Benzene, Toluene, and Ethyl Acetate. Industrial & Engineering Chemistry Research, 2009, 48, 6930-6936.	3.7	101
26	Comprehensive investigation of Pd/ZSM-5/MCM-48 composite catalysts with enhanced activity and stability for benzene oxidation. Applied Catalysis B: Environmental, 2010, 96, 466-475.	20.2	100
27	Catalytic behavior and synergistic effect of nanostructured mesoporous CuO-MnOx-CeO2 catalysts for chlorobenzene destruction. Applied Surface Science, 2014, 297, 59-69.	6.1	98
28	Novel all-solid-state Z-scheme SnO2/Pt/In2O3 photocatalyst with boosted photocatalytic performance on water splitting and 2,4-dichlorophenol degradation under visible light. Chemical Engineering Journal, 2020, 390, 124518.	12.7	98
29	Template-free synthesis of hierarchical porous carbon with controlled morphology for CO2 efficient capture. Chemical Engineering Journal, 2018, 353, 584-594.	12.7	97
30	Facile synthesis of CuSO₄/TiO₂ catalysts with superior activity and SO₂ tolerance for NH₃-SCR: physicochemical properties and reaction mechanism. Catalysis Science and Technology, 2017, 7, 1590-1601.	4.1	95
31	Development of rare earth element doped magnetic biochars with enhanced phosphate adsorption performance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 561, 236-243.	4.7	94
32	Dodecylamine coordinated tri-arm CdS nanorod wrapped in intermittent ZnS shell for greatly improved photocatalytic H2 evolution. Chemical Engineering Journal, 2022, 429, 132382.	12.7	94
33	In-Depth Understanding of the Morphology Effect of Î±-Fe₂O₃ on Catalytic Ethane Destruction. ACS Applied Materials & Interfaces, 2019, 11, 11369-11383.	8.0	91
34	Understanding the Promotional Effect of Mn₂O₃ on Micro-/Mesoporous Hybrid Silica Nanocubic-Supported Pt Catalysts for the Low-Temperature Destruction of Methyl Ethyl Ketone: An Experimental and Theoretical Study. ACS Catalysis, 2018, 8, 4213-4229.	11.2	90
35	Yolk-shell-like mesoporous CoCrOx with superior activity and chlorine resistance in dichloromethane destruction. Applied Catalysis B: Environmental, 2020, 264, 118493.	20.2	90
36	Knack behind the high performance CdS/ZnS-NiS nanocomposites: Optimizing synergistic effect between cocatalyst and heterostructure for boosting hydrogen evolution. Chemical Engineering Journal, 2022, 431, 133446.	12.7	90

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37	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.	12.4	88
38	MgFe2O4-biochar based lanthanum alginate beads for advanced phosphate removal. Chemical Engineering Journal, 2020, 387, 123305.	12.7	88
39	Catalytic oxidation of 1,2-dichloroethane over three-dimensional ordered meso-macroporous Co3O4/La0.7Sr0.3Fe0.5Co0.5O3: Destruction route and mechanism. Applied Catalysis A: General, 2018, 553, 1-14.	4.3	87
40	Unraveling the effects of potassium incorporation routes and positions on toluene oxidation over Î±-MnO2 nanorods: Based on experimental and density functional theory (DFT) studies. Journal of Colloid and Interface Science, 2021, 598, 324-338.	9.4	87
41	Comprehensive understanding the promoting effect of Dy-doping on MnFeOx nanowires for the low-temperature NH3-SCR of NOx: An experimental and theoretical study. Journal of Catalysis, 2019, 380, 55-67.	6.2	85
42	Regeneration of full-scale commercial honeycomb monolith catalyst (V2O5â€“WO3/TiO2) used in coal-fired power plant. Journal of Industrial and Engineering Chemistry, 2012, 18, 513-519.	5.8	83
43	Recent advancement and future challenges of photothermal catalysis for VOCs elimination: From catalyst design to applications. Green Energy and Environment, 2023, 8, 654-672.	8.7	82
44	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.	20.2	79
45	Ascorbic acid functionalized CdSâ€“ZnO coreâ€“shell nanorods with hydrogen spillover for greatly enhanced photocatalytic H₂ evolution and outstanding photostability. Journal of Materials Chemistry A, 2021, 9, 9735-9744.	10.3	77
46	A Comprehensive Study of Deep Catalytic Oxidation of Benzene, Toluene, Ethyl Acetate, and their Mixtures over Pd/ZSM-5 Catalyst: Mutual Effects and Kinetics. Water, Air, and Soil Pollution, 2010, 209, 365-376.	2.4	76
47	Promotive Effect of SO₂ on the Activity of a Deactivated Commercial Selective Catalytic Reduction Catalyst: An in situ DRIFT Study. Industrial & Engineering Chemistry Research, 2014, 53, 16229-16234.	3.7	76
48	Polyethyleneimine and carbon disulfide co-modified alkaline lignin for removal of Pb2â€¯+ â€¯ions from water. Chemical Engineering Journal, 2019, 359, 265-274.	12.7	74
49	Mesostructured Cuâ€“Mnâ€“Ceâ€“O composites with homogeneous bulk composition for chlorobenzene removal: Catalytic performance and microactivation course. Materials Chemistry and Physics, 2015, 157, 87-100.	4.0	73
50	One-step vulcanization of Cd(OH)Cl nanorods to synthesize CdS/ZnS/PdS nanotubes for highly efficient photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 15278-15287.	10.3	73
51	Catalytic destruction of chlorobenzene over mesoporous ACeOx (A=Co, Cu, Fe, Mn, or Zr) composites prepared by inorganic metal precursor spontaneous precipitation. Fuel Processing Technology, 2015, 130, 179-187.	7.2	70
52	Investigation of Selective Catalytic Reduction of N₂O by NH₃ over an Feâ€“Mordenite Catalyst: Reaction Mechanism and O₂ Effect. ACS Catalysis, 2012, 2, 512-520.	11.2	68
53	Insight into the efficient oxidation of methyl-ethyl-ketone over hierarchically micro-mesostructured Pt/K-(Al)SiO2 nanorod catalysts: Structure-activity relationships and mechanism. Applied Catalysis B: Environmental, 2018, 226, 220-233.	20.2	67
54	Hydrogen spillover effect induced by ascorbic acid in CdS/NiO core-shell p-n heterojunction for significantly enhanced photocatalytic H2 evolution. Journal of Colloid and Interface Science, 2021, 596, 215-224.	9.4	65

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55	The insight into the role of Al2O3 in promoting the SO2 tolerance of MnOx for low-temperature selective catalytic reduction of NOx with NH3. Chemical Engineering Journal, 2020, 398, 125572.	12.7	65
56	Characteristics of Au/HMS catalysts for selective oxidation of benzyl alcohol to benzaldehyde. Catalysis Today, 2010, 158, 246-251.	4.4	64
57	Efficient capture of CO2 over ordered micro-mesoporous hybrid carbon nanosphere. Applied Surface Science, 2018, 439, 113-121.	6.1	64
58	Highly active Pd-based catalysts with hierarchical pore structure for toluene oxidation: Catalyst property and reaction determining factor. Chemical Engineering Journal, 2012, 180, 46-56.	12.7	63
59	Application of ReO_x/TiO₂ catalysts with excellent SO₂ tolerance for the selective catalytic reduction of NO_x by NH₃. Catalysis Science and Technology, 0, , .	4.1	63
60	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.	6.1	63
61	Hierarchical zeolite enveloping Pd-CeO2 nanowires: An efficient adsorption/catalysis bifunctional catalyst for low temperature propane total degradation. Chemical Engineering Journal, 2020, 393, 124717.	12.7	62
62	MnOx-CeO2 shell-in-shell microspheres for NH3-SCR de-NOx at low temperature. Catalysis Communications, 2016, 86, 36-40.	3.3	61
63	Facile synthesis of catalytically active CeO₂ for soot combustion. Catalysis Science and Technology, 2015, 5, 1941-1952.	4.1	60
64	Synthesis and characterization of Pd/ZSM-5/MCM-48 biporous catalysts with superior activity for benzene oxidation. Applied Catalysis A: General, 2010, 382, 167-175.	4.3	59
65	Carbon nanosheet facilitated charge separation and transfer between molybdenum carbide and graphitic carbon nitride toward efficient photocatalytic H2 production. Applied Surface Science, 2019, 473, 91-101.	6.1	59
66	In situ fabrication of robust three dimensional ordered macroporous Î³-MnO2/LaMnO3.15 catalyst for chlorobenzene efficient destruction. Applied Catalysis B: Environmental, 2021, 282, 119565.	20.2	59
67	Regeneration of deactivated commercial SCR catalyst by alkali washing. Catalysis Communications, 2013, 39, 78-81.	3.3	57
68	Plasmaâ€activated water production and its application in agriculture. Journal of the Science of Food and Agriculture, 2021, 101, 4891-4899.	3.5	55
69	Charge-redistribution-induced new active sites on (0â€¯0â€¯1) facets of Î±-Mn2O3 for significantly enhanced selective catalytic reduction of NO by NH3. Journal of Catalysis, 2019, 370, 30-37.	6.2	54
70	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. Critical Reviews in Environmental Science and Technology, 2022, 52, 311-355.	12.8	54
71	Intra-crystalline mesoporous zeolite encapsulation-derived thermally robust metal nanocatalyst in deep oxidation of light alkanes. Nature Communications, 2022, 13, 295.	12.8	54
72	SO2 promoted in situ recovery of thermally deactivated Fe2(SO4)3/TiO2 NH3-SCR catalysts: From experimental work to theoretical study. Chemical Engineering Journal, 2019, 361, 820-829.	12.7	53

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73	Catalytic removal of 1,2-dichloroethane over LaSrMnCoO₆/H-ZSM-5 composite: insights into synergistic effect and pollutant-destruction mechanism. Catalysis Science and Technology, 2018, 8, 4503-4514.	4.1	52
74	Investigating the binding properties between antimony(V) and dissolved organic matter (DOM) under different pH conditions during the soil sorption process using fluorescence and FTIR spectroscopy. Ecotoxicology and Environmental Safety, 2019, 181, 34-42.	6.0	52
75	Feâ€“Mnâ€“Ce/ceramic powder composite catalyst for highly volatile elemental mercury removal in simulated coal-fired flue gas. Journal of Industrial and Engineering Chemistry, 2015, 25, 352-358.	5.8	51
76	A novel solar photo-Fenton system with self-synthesizing H2O2: Enhanced photo-induced catalytic performances and mechanism insights. Applied Surface Science, 2020, 512, 145650.	6.1	51
77	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.	9.4	51
78	Benzene Removal Using Non-thermal Plasma with CuO/AC Catalyst: Reaction Condition Optimization and Decomposition Mechanism. Plasma Chemistry and Plasma Processing, 2014, 34, 1387-1402.	2.4	50
79	Nanometric palladium confined in mesoporous silica as efficient catalysts for toluene oxidation at low temperature. Applied Catalysis B: Environmental, 2012, 111-112, 46-57.	20.2	49
80	The remarkable promotional effect of SO2 on Pb-poisoned V2O5-WO3/TiO2 catalysts: An in-depth experimental and theoretical study. Chemical Engineering Journal, 2018, 338, 191-201.	12.7	49
81	Microwave assisted modification of activated carbons by organic acid ammoniums activation for enhanced adsorption of acid red 18. Powder Technology, 2018, 323, 230-237.	4.2	49
82	Deactivation mechanism of de-NOx catalyst (V2O5-WO3/TiO2) used in coal fired power plant. Journal of Fuel Chemistry and Technology, 2012, 40, 1359-1365.	2.0	47
83	Sorption of Sulfadiazine, Norfloxacin, Metronidazole, and Tetracycline by Granular Activated Carbon: Kinetics, Mechanisms, and Isotherms. Water, Air, and Soil Pollution, 2017, 228, 1.	2.4	47
84	The synergistic effects between Ce and Cu in Cu_yCe_{1â^'y}W₅O_x catalysts for enhanced NH₃-SCR of NO_x and SO₂ tolerance. Catalysis Science and Technology, 2019, 9, 718-730.	4.1	47
85	Dramatically promoted toluene destruction over Mn@Na-Al2O3@Al monolithic catalysts by Ce incorporation: Oxygen vacancy construction and reaction mechanism. Fuel, 2022, 326, 125051.	6.4	47
86	Effect of pH on the adsorption of arsenic(V) and antimony(V) by the black soil in three systems: Performance and mechanism. Ecotoxicology and Environmental Safety, 2020, 191, 110145.	6.0	46
87	Modulating the Electronic Metalâ€Support Interactions in Singleâ€Atom Pt₁â^'CuO Catalyst for Boosting Acetone Oxidation. Angewandte Chemie - International Edition, 2022, 61, .	13.8	46
88	Catalytic oxidation of benzene over nanostructured porous Co3O4-CeO2 composite catalysts. Journal of Environmental Sciences, 2011, 23, 2078-2086.	6.1	45
89	Facile preparation of 3D ordered mesoporous CuOxâ€“CeO2 with notably enhanced efficiency for the low temperature oxidation of heteroatom-containing volatile organic compounds. RSC Advances, 2013, 3, 19639.	3.6	45
90	Highly active SBA-15-confined Pd catalyst with short rod-like micro-mesoporous hybrid nanostructure for n-butylamine low-temperature destruction. Molecular Catalysis, 2018, 455, 192-203.	2.0	45

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91	Biotemplate Fabrication of Hollow Tubular Ce_xSr_{1â€“x}TiO₃ with Regulable Surface Acidity and Oxygen Mobility for Efficient Destruction of Chlorobenzene: Intrinsic Synergy Effect and Reaction Mechanism. Environmental Science & Technology, 2022, 56, 5796-5807.	10.0	45
92	Catalytic behavior and reaction routes of MEK oxidation over Pd/ZSM-5 and Pdâ€“Ce/ZSM-5 catalysts. Journal of Hazardous Materials, 2013, 244-245, 613-620.	12.4	44
93	Au Nanoparticle and CdS Quantum Dot Codecoration of In₂O₃ Nanosheets for Improved H₂ Evolution Resulting from Efficient Light Harvesting and Charge Transfer. ACS Sustainable Chemistry and Engineering, 2019, 7, 547-557.	6.7	44
94	Thulium modified MnOx/TiO2 catalyst for the low-temperature selective catalytic reduction of NO with ammonia. Journal of Cleaner Production, 2021, 290, 125858.	9.3	44
95	Taming structure and modulating carbon dioxide (CO2) adsorption isosteric heat of nickel-based metal organic framework (MOF-74(Ni)) for remarkable CO2 capture. Journal of Colloid and Interface Science, 2022, 612, 132-145.	9.4	44
96	Efficient spatial charge separation and transfer in ultrathin g-C₃N₄ nanosheets modified with Cu₂MoS₄ as a noble metal-free co-catalyst for superior visible light-driven photocatalytic water splitting. Catalysis Science and Technology, 2018, 8, 3883-3893.	4.1	42
97	Enabling superior hybrid capacitive deionization performance in NASICON-structured Na₃MnTi(PO₄)₃/C by incorporating a two-species redox reaction. Journal of Materials Chemistry A, 2021, 9, 6898-6904.	10.3	42
98	Indoor Air Pollution Levels in Decorated Residences and Public Places over Xiâ€™an, China. Aerosol and Air Quality Research, 2017, 17, 2197-2205.	2.1	42
99	In situ Growth Synthesis of CuO@Cuâ€MOFs Coreâ€shell Materials as Novel Lowâ€temperature NH₃â€SCR Catalysts. ChemCatChem, 2019, 11, 979-984.	3.7	41
100	Catalytic total oxidation of toluene over carbon-supported Cu Co oxide catalysts derived from Cu-based metal organic framework. Powder Technology, 2020, 363, 95-106.	4.2	41
101	Three-dimensional hierarchical Na3Fe2(PO4)3/C with superior and fast sodium uptake for efficient hybrid capacitive deionization. Desalination, 2021, 520, 115341.	8.2	41
102	Effects of calcination temperature on physicochemical property and activity of CuSO4/TiO2 ammonia-selective catalytic reduction catalysts. Journal of Environmental Sciences, 2020, 91, 237-245.	6.1	40
103	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.	12.4	40
104	Tuning the micromorphology and exposed facets of MnO_x promotes methyl ethyl ketone low-temperature abatement: boosting oxygen activation and electron transmission. Catalysis Science and Technology, 2018, 8, 3863-3875.	4.1	39
105	Mnâ€“Co Mixed Oxide Nanosheets Vertically Anchored on H₂Ti₃O₇ Nanowires: Full Exposure of Active Components Results in Significantly Enhanced Catalytic Performance. ChemCatChem, 2018, 10, 2833-2844.	3.7	39
106	Adsorption of Pb2+ and Cu2+ ions on the CS2-modified alkaline lignin. Chemical Engineering Journal, 2020, 391, 123581.	12.7	39
107	Decomposition of nitrous oxide over Co-zeolite catalysts: role of zeolite structure and active site. Catalysis Science and Technology, 2012, 2, 1249.	4.1	38
108	Remarkable promotion effect of lauric acid on Mn-MIL-100 for non-thermal plasma-catalytic decomposition of toluene. Applied Surface Science, 2020, 503, 144290.	6.1	38

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109	Selective electrochemical H2O2 generation on the graphene aerogel for efficient electro-Fenton degradation of ciprofloxacin. Separation and Purification Technology, 2021, 272, 118884.	7.9	38
110	Source contributions to carbonaceous species in PM2.5 and their uncertainty analysis at typical urban, peri-urban and background sites in southeast China. Environmental Pollution, 2013, 181, 107-114.	7.5	37
111	Sulfate reducer and sulfur oxidizer respond differentially to the invasion of Spartina alterniflora in estuarine salt marsh of China. Ecological Engineering, 2017, 99, 182-190.	3.6	37
112	Regeneration and sulfur poisoning behavior of In/H-BEA catalyst for NOx reduction by CH4. Applied Surface Science, 2017, 401, 120-126.	6.1	37
113	Rational design of CrOx/LaSrMnCoO6 composite catalysts with superior chlorine tolerance and stability for 1,2-dichloroethane deep destruction. Applied Catalysis A: General, 2019, 570, 62-72.	4.3	37
114	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.	6.4	37
115	Inserting Cr2O3 dramatically promotes RuO2/TiO2 catalyst for low-temperature 1,2-dichloroethane deep destruction: Catalytic performance and synergy mechanism. Applied Catalysis B: Environmental, 2022, 304, 121002.	20.2	37
116	N2O catalytic reduction by NH3 over Fe-zeolites: Effective removal and active site. Catalysis Communications, 2012, 18, 151-155.	3.3	36
117	Hierarchically Hollow MnO₂@CeO₂ Heterostructures for NO Oxidation: Remarkably Promoted Activity and SO₂ Tolerance. ACS Catalysis, 2021, 11, 10988-10996.	11.2	36
118	Achieving toluene efficient mineralization over K/É‘-MnO2 via oxygen vacancy modulation. Journal of Colloid and Interface Science, 2021, 598, 238-249.	9.4	36
119	Revealing the unexpected promotion effect of diverse potassium precursors on Î±-MnO₂ for the catalytic destruction of toluene. Catalysis Science and Technology, 2020, 10, 2100-2110.	4.1	35
120	Layered sphere-shaped TiO 2 capped with gold nanoparticles on structural defects and their catalysis of formaldehyde oxidation. Journal of Environmental Sciences, 2016, 39, 77-85.	6.1	32
121	Revealing the unexpected promotion effect of EuO on Pt/CeO2 catalysts for catalytic combustion of toluene. Chinese Journal of Catalysis, 2019, 40, 543-552.	14.0	32
122	Synergistic Effect of Non-thermal Plasma on NO_x Reduction by CH₄ over an In/H-BEA Catalyst at Low Temperatures. Energy & Fuels, 2015, 29, 5282-5289.	5.1	31
123	Gas-phase total oxidation of nitric oxide using hydrogen peroxide vapor over Pt/TiO2. Applied Surface Science, 2018, 457, 821-830.	6.1	31
124	Anionic starch-induced Cu-based composite with flake-like mesostructure for gas-phase propanal efficient removal. Journal of Colloid and Interface Science, 2015, 454, 216-225.	9.4	30
125	Rare-earth element doping-promoted toluene low-temperature combustion over mesostructured CuMCeO_x (M = Y, Eu, Ho, and Sm) catalysts: the indispensable role of in situ generated oxygen vacancies. Catalysis Science and Technology, 2018, 8, 5933-5942.	4.1	30
126	Synthesis and hydrophobic adsorption properties of microporous/mesoporous hybrid materials. Journal of Hazardous Materials, 2009, 164, 1205-1212.	12.4	29

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127	NiyCo1-yMn2Ox microspheres for the selective catalytic reduction of NOx with NH3: The synergetic effects between Ni and Co for improving low-temperature catalytic performance. Applied Catalysis A: General, 2018, 560, 1-11.	4.3	29
128	Hydrophobic micro/mesoporous silica spheres assembled from zeolite precursors in acidic media for aromatics adsorption. Microporous and Mesoporous Materials, 2010, 133, 115-123.	4.4	28
129	Templated Silica with Increased Surface Area and Expanded Microporosity: Synthesis, Characterization, and Catalytic Application. Chemical Engineering Journal, 2010, 162, 901-909.	12.7	28
130	Supported Nanometric Pd Hierarchical Catalysts for Efficient Toluene Removal: Catalyst Characterization and Activity Elucidation. Industrial & Engineering Chemistry Research, 2012, 51, 7211-7222.	3.7	28
131	Spherical-like Pd/SiO2 catalysts for n-butylamine efficient combustion: Effect of support property and preparation method. Catalysis Today, 2020, 339, 181-191.	4.4	28
132	CdS quantum dots modified N-doped titania plates for the photocatalytic mineralization of diclofenac in water under visible light irradiation. Journal of Molecular Catalysis A, 2015, 399, 79-85.	4.8	27
133	Rationally engineered ReO -CuSO4/TiO2 catalyst with superior NH3-SCO efficiency and remarkably boosted SO2 tolerance: Synergy of acid sites and surface adsorbed oxygen. Chemical Engineering Journal, 2022, 442, 136356.	12.7	26
134	Ligand-assisted preparation of highly active and stable nanometric Pd confined catalysts for deep catalytic oxidation of toluene. Journal of Hazardous Materials, 2010, 181, 996-1003.	12.4	24
135	Oxidation efficiency of elemental mercury in flue gas by SCR De-NOx catalysts. Journal of Fuel Chemistry and Technology, 2012, 40, 241-246.	2.0	24
136	Efficient degradation of amoxicillin by scaled-up electro-Fenton process: Attenuation of toxicity and decomposition mechanism. Electrochimica Acta, 2021, 381, 138274.	5.2	24
137	Birnessite-type short rod-like MnO2 achieving propane low-temperature destruction: Benign synthesis strategy and reaction mechanism determination. Applied Surface Science, 2021, 559, 149905.	6.1	24
138	Mutual inhibition mechanism of simultaneous catalytic removal of NO and toluene on Mn-based catalysts. Journal of Colloid and Interface Science, 2022, 607, 1189-1200.	9.4	24
139	Toluene destruction over nanometric palladium supported ZSM-5 catalysts: influences of support acidity and operation condition. Journal of Porous Materials, 2014, 21, 551-563.	2.6	23
140	Promotional mechanism of propane on selective catalytic reduction of NOx by methane over In/H-BEA at low temperature. Applied Surface Science, 2016, 390, 608-616.	6.1	23
141	Engineering Ru/MnCo₃O_x for 1,2-Dichloroethane Benign Destruction by Strengthening Câ€“Cl Cleavage and Chlorine Desorption: Decisive Role of H₂O and Reaction Mechanism. ACS Catalysis, 2022, 12, 8776-8792.	11.2	23
142	Deactivation mechanism and feasible regeneration approaches for the used commercial NH₃-SCR catalysts. Environmental Technology (United Kingdom), 2016, 37, 828-836.	2.2	21
143	Argon plasma effects on maize: pesticide degradation and quality changes. Journal of the Science of Food and Agriculture, 2019, 99, 5491-5498.	3.5	21
144	Nanometric Pd-confined mesoporous silica as high-efficient catalyst for toluene low temperature removal: Effects of support morphology and textural property. Journal of Industrial and Engineering Chemistry, 2012, 18, 1598-1605.	5.8	20

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