Hong He

List of Publications by Year
in descending order

513	33,159	3334 91	6835 155
papers	citations	h-index	g-index

542	542	542	19294
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Drivers of improved PM _{2.5} air quality in China from 2013 to 2017. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24463-24469.	7.1	1,193
2	Alkaliâ€Metalâ€Promoted Pt/TiO₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. Angewandte Chemie - International Edition, 2012, 51, 9628-9632.	13.8	611
3	Industrial carbon dioxide capture and utilization: state of the art and future challenges. Chemical Society Reviews, 2020, 49, 8584-8686.	38.1	610
4	Effect of manganese substitution on the structure and activity of iron titanate catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2009, 93, 194-204.	20.2	579
5	A superior Ce-W-Ti mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2012, 115-116, 100-106.	20.2	562
6	Plasmon-Induced Photodegradation of Toxic Pollutants with Agâˆ'AgI/Al₂O₃ under Visible-Light Irradiation. Journal of the American Chemical Society, 2010, 132, 857-862.	13.7	541
7	Catalytic performance and mechanism of a Pt/TiO2 catalyst for the oxidation of formaldehyde at room temperature. Applied Catalysis B: Environmental, 2006, 65, 37-43.	20.2	517
8	Arsenate Adsorption on an Feâˆ'Ce Bimetal Oxide Adsorbent:Â Role of Surface Properties. Environmental Science & Technology, 2005, 39, 7246-7253.	10.0	476
9	Catalytic oxidation of formaldehyde over manganese oxides with different crystal structures. Catalysis Science and Technology, 2015, 5, 2305-2313.	4.1	464
10	Catalytic decomposition of N2O over CeO2 promoted Co3O4 spinel catalyst. Applied Catalysis B: Environmental, 2007, 75, 167-174.	20.2	439
11	Mineral dust and NOx promote the conversion of SO2 to sulfate in heavy pollution days. Scientific Reports, 2014, 4, 4172.	3.3	426
12	Deactivation of a Ce/TiO₂ Catalyst by SO₂ in the Selective Catalytic Reduction of NO by NH₃. Journal of Physical Chemistry C, 2009, 113, 4426-4432.	3.1	385
13	Novel ceriumâ€"tungsten mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Chemical Communications, 2011, 47, 8046.	4.1	335
14	The effect of ethanol blended diesel fuels on emissions from a diesel engine. Atmospheric Environment, 2003, 37, 4965-4971.	4.1	315
15	Highly Active Catalysts of Gold Nanoparticles Supported on Threeâ€Dimensionally Ordered Macroporous LaFeO₃ for Soot Oxidation. Angewandte Chemie - International Edition, 2011, 50, 2326-2329.	13.8	306
16	Structureâˆ'Activity Relationship of Iron Titanate Catalysts in the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Journal of Physical Chemistry C, 2010, 114, 16929-16936.	3.1	304
17	Enhanced photocatalytic oxidation of NO over g-C3N4-TiO2 under UV and visible light. Applied Catalysis B: Environmental, 2016, 184, 28-34.	20.2	304
18	Selective catalytic reduction of NO by NH3 over a Ce/TiO2 catalyst. Catalysis Communications, 2008, 9, 1453-1457.	3.3	303

#	Article	IF	Citations
19	Pretreatments of Co3O4 at moderate temperature for CO oxidation at âˆ’80 Â°C. Journal of Catalysis, 2009, 267, 121-128.	6.2	298
20	Contrasting trends of PM2.5 and surface-ozone concentrations in China from 2013 to 2017. National Science Review, 2020, 7, 1331-1339.	9.5	284
21	High-resolution ammonia emissions inventories in China from 1980 to 2012. Atmospheric Chemistry and Physics, 2016, 16, 2043-2058.	4.9	281
22	A comparative study of TiO2 supported noble metal catalysts for the oxidation of formaldehyde at room temperature. Catalysis Today, 2007, 126, 345-350.	4.4	269
23	Excellent Performance of One-Pot Synthesized Cu-SSZ-13 Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Environmental Science & Technology, 2014, 48, 566-572.	10.0	264
24	Selective catalytic reduction of NO with NH3 over iron titanate catalyst: Catalytic performance and characterization. Applied Catalysis B: Environmental, 2010, 96, 408-420.	20.2	258
25	Sodium-Promoted Pd/TiO₂ for Catalytic Oxidation of Formaldehyde at Ambient Temperature. Environmental Science & Technology, 2014, 48, 5816-5822.	10.0	253
26	Single-atom site catalysts for environmental catalysis. Nano Research, 2020, 13, 3165-3182.	10.4	252
27	Self-Assembly of Novel Mesoporous Manganese Oxide Nanostructures and Their Application in Oxidative Decomposition of Formaldehyde. Journal of Physical Chemistry C, 2007, 111, 18033-18038.	3.1	248
28	Environmentally-benign catalysts for the selective catalytic reduction of NO_xfrom diesel engines: structureâ€"activity relationship and reaction mechanism aspects. Chemical Communications, 2014, 50, 8445-8463.	4.1	248
29	Influence of sulfation on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2011, 103, 369-377.	20.2	245
30	Emission reduction potential of using ethanolâ€"biodieselâ€"diesel fuel blend on a heavy-duty diesel engine. Atmospheric Environment, 2006, 40, 2567-2574.	4.1	242
31	Manganeseâ€"niobium mixed oxide catalyst for the selective catalytic reduction of NOx with NH3 at low temperatures. Chemical Engineering Journal, 2014, 250, 390-398.	12.7	238
32	Transition metal doped cryptomelane-type manganese oxide catalysts for ozone decomposition. Applied Catalysis B: Environmental, 2017, 201, 503-510.	20.2	238
33	Oxygen Vacancies Induced by Transition Metal Doping in Î³-MnO₂ for Highly Efficient Ozone Decomposition. Environmental Science & Technology, 2018, 52, 12685-12696.	10.0	236
34	Perfect catalytic oxidation of formaldehyde over a Pt/TiO2 catalyst at room temperature. Catalysis Communications, 2005, 6, 211-214.	3.3	216
35	Polymeric vanadyl species determine the low-temperature activity of V-based catalysts for the SCR of NO _{<i>x</i>} with NH ₃. Science Advances, 2018, 4, eaau4637.	10.3	206
36	Significant Promotion Effect of Mo Additive on a Novel Ceâ€"Zr Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. ACS Applied Materials & Interfaces, 2015, 7, 9497-9506.	8.0	186

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37	Selective catalytic reduction of NO with NH3 over manganese substituted iron titanate catalyst: Reaction mechanism and H2O/SO2 inhibition mechanism study. Catalysis Today, 2010, 153, 70-76.	4.4	183
38	The smart surface modification of Fe2O3 by WO for significantly promoting the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2018, 230, 165-176.	20.2	182
39	Mechanism of selective catalytic oxidation of ammonia to nitrogen over Ag/Al2O3. Journal of Catalysis, 2009, 268, 18-25.	6.2	178
40	Three-dimensionally ordered macroporous Ce0.8Zr0.2O2-supported gold nanoparticles: synthesis with controllable size and super-catalytic performance for soot oxidation. Energy and Environmental Science, 2011, 4, 2959.	30.8	171
41	Emission characteristics using methyl soyate?ethanol?diesel fuel blends on a diesel engine. Fuel, 2005, 84, 1543-1543.	6.4	170
42	Mechanism of the selective catalytic reduction of NOx with NH3 over environmental-friendly iron titanate catalyst. Catalysis Today, 2011, 175, 18-25.	4.4	170
43	High temperature reduction dramatically promotes Pd/TiO2 catalyst for ambient formaldehyde oxidation. Applied Catalysis B: Environmental, 2017, 217, 560-569.	20.2	167
44	An environmentally-benign CeO2-TiO2 catalyst for the selective catalytic reduction of NO with NH3 in simulated diesel exhaust. Catalysis Today, 2012, 184, 160-165.	4.4	163
45	Selective catalytic reduction of NOx over Ag/Al2O3 catalyst: from reaction mechanism to diesel engine test. Catalysis Today, 2005, 100, 37-47.	4.4	160
46	A MnO2-based catalyst with H2O resistance for NH3-SCR: Study of catalytic activity and reactants-H2O competitive adsorption. Applied Catalysis B: Environmental, 2020, 270, 118860.	20.2	159
47	Promotional effect of Nb additive on the activity and hydrothermal stability for the selective catalytic reduction of NO with NH3 over CeZrO catalyst. Applied Catalysis B: Environmental, 2016, 180, 766-774.	20.2	158
48	A novel W-doped Ni-Mg mixed oxide catalyst for CO2 methanation. Applied Catalysis B: Environmental, 2016, 196, 108-116.	20.2	155
49	Highly dispersed iron vanadate catalyst supported on TiO2 for the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2013, 307, 340-351.	6.2	149
50	Removal of azo-dye Acid Red B (ARB) by adsorption and catalytic combustion using magnetic CuFe2O4 powder. Applied Catalysis B: Environmental, 2004, 48, 49-56.	20.2	146
51	Catalytic oxidation of nitrogen monoxide over La1â^’xCexCoO3 perovskites. Catalysis Today, 2007, 126, 400-405.	4.4	146
52	The Effects of Mn²⁺ Precursors on the Structure and Ozone Decomposition Activity of Cryptomelane-Type Manganese Oxide (OMS-2) Catalysts. Journal of Physical Chemistry C, 2015, 119, 23119-23126.	3.1	144
53	Nanosize Effect of Al₂O₃ in Ag/Al₂O₃ Catalyst for the Selective Catalytic Oxidation of Ammonia. ACS Catalysis, 2018, 8, 2670-2682.	11.2	144
54	Synergistic reaction between SO2 and NO2 on mineraloxides: a potential formation pathway of sulfate aerosol. Physical Chemistry Chemical Physics, 2012, 14, 1668-1676.	2.8	143

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55	A comparative study of the activity and hydrothermal stability of Al-rich Cu-SSZ-39 and Cu-SSZ-13. Applied Catalysis B: Environmental, 2020, 264, 118511.	20.2	143
56	Novel iron titanate catalyst for the selective catalytic reduction of NO with NH3 in the medium temperature range. Chemical Communications, 2008, , 2043.	4.1	140
57	Novel MnWOx catalyst with remarkable performance for low temperature NH3-SCR of NOx. Catalysis Science and Technology, 2013, 3, 2699.	4.1	140
58	Mechanism of the selective catalytic reduction of NOx by C2H5OH over Ag/Al2O3. Applied Catalysis B: Environmental, 2004, 49, 159-171.	20.2	137
59	Selective catalytic reduction of NO<i>x</i> with NH3: opportunities and challenges of Cu-based small-pore zeolites. National Science Review, 2021, 8, nwab010.	9.5	137
60	Degradation kinetics of levoglucosan initiated by hydroxyl radical under different environmental conditions. Atmospheric Environment, 2014, 91, 32-39.	4.1	129
61	Characteristics of carbonyl compounds emission from a diesel-engine using biodieselâ€“ethanolâ€“diesel as fuel. Atmospheric Environment, 2006, 40, 7057-7065.	4.1	126
62	The role of silver species on Ag/Al2O3 catalysts for the selective catalytic oxidation of ammonia to nitrogen. Journal of Catalysis, 2009, 261, 101-109.	6.2	126
63	Significant concurrent decrease in PM2.5 and NO2 concentrations in China during COVID-19 epidemic. Journal of Environmental Sciences, 2021, 99, 346-353.	6.1	126
64	Effect of Fe on the photocatalytic removal of NO over visible light responsive Fe/TiO2 catalysts. Applied Catalysis B: Environmental, 2015, 179, 21-28.	20.2	124
65	The use of ceria for the selective catalytic reduction of NOx with NH3. Chinese Journal of Catalysis, 2014, 35, 1251-1259.	14.0	121
66	High hydrothermal stability of Cuâ€“SAPO-34 catalysts for the NH3-SCR of NOx. Chemical Engineering Journal, 2016, 294, 254-263.	12.7	121
67	Complete oxidation of o-xylene over Pd/Al2O3 catalyst at low temperature. Catalysis Today, 2008, 139, 15-23.	4.4	120
68	Inhibitory effect of NO2 on the selective catalytic reduction of NOx with NH3 over one-pot-synthesized Cuâ€“SSZ-13 catalyst. Catalysis Science and Technology, 2014, 4, 1104.	4.1	119
69	Characterization and Reactivity of MnO_{<i>x</i>} Supported on Mesoporous Zirconia for Herbicide 2,4-D Mineralization with Ozone. Environmental Science & Technology, 2008, 42, 3363-3368.	10.0	118
70	A simple strategy to improve Pd dispersion and enhance Pd/TiO2 catalytic activity for formaldehyde oxidation: The roles of surface defects. Applied Catalysis B: Environmental, 2021, 282, 119540.	20.2	117
71	Facile In-Situ Synthesis of Manganese Dioxide Nanosheets on Cellulose Fibers and their Application in Oxidative Decomposition of Formaldehyde. Journal of Physical Chemistry C, 2011, 115, 16873-16878.	3.1	116
72	Photocatalytic Removal of NO_{<i>x</i>} over Visible Light Responsive Oxygen-Deficient TiO₂. Journal of Physical Chemistry C, 2014, 118, 7434-7441.	3.1	116

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73	Air Pollutant Correlations in China: Secondary Air Pollutant Responses to NO_{<i>x</i>} and SO₂ Control. Environmental Science and Technology Letters, 2020, 7, 695-700.	8.7	113
74	Promotion Effects and Mechanism of Alkali Metals and Alkaline Earth Metals on Cobaltâˆ'Cerium Composite Oxide Catalysts for N₂O Decomposition. Environmental Science & Technology, 2009, 43, 890-895.	10.0	112
75	Silver incorporated into cryptomelane-type Manganese oxide boosts the catalytic oxidation of benzene. Applied Catalysis B: Environmental, 2018, 239, 214-222.	20.2	111
76	Resolving the puzzle of single-atom silver dispersion on nanosized Î³-Al2O3 surface for high catalytic performance. Nature Communications, 2020, 11, 529.	12.8	111
77	Synergistic Effect between NO₂ and SO₂ in Their Adsorption and Reaction on Î³-Alumina. Journal of Physical Chemistry A, 2008, 112, 6630-6635.	2.5	110
78	Carbonyls emission from ethanol-blended gasoline and biodiesel-ethanol-diesel used in engines. Atmospheric Environment, 2008, 42, 1349-1358.	4.1	108
79	Ultrasound-Assisted Nanocasting Fabrication of Ordered Mesoporous MnO₂ and Co₃O₄ with High Surface Areas and Polycrystalline Walls. Journal of Physical Chemistry C, 2010, 114, 2694-2700.	3.1	108
80	NH₃-SCR Performance of Fresh and Hydrothermally Aged Fe-ZSM-5 in Standard and Fast Selective Catalytic Reduction Reactions. Environmental Science & Technology, 2013, 47, 3293-3298.	10.0	108
81	Influence of alkali metals on Pd/TiO₂ catalysts for catalytic oxidation of formaldehyde at room temperature. Catalysis Science and Technology, 2016, 6, 2289-2295.	4.1	107
82	Ultrasound-assisted nanocasting fabrication and excellent catalytic performance of three-dimensionally ordered mesoporous chromia for the combustion of formaldehyde, acetone, and methanol. Applied Catalysis B: Environmental, 2010, 100, 229-237.	20.2	106
83	Investigation into the Enhanced Catalytic Oxidation of <i>o</i>-Xylene over MOF-Derived Co₃O₄ with Different Shapes: The Role of Surface Twofold-Coordinate Lattice Oxygen (O_{2f}). ACS Catalysis, 2021, 11, 6614-6625.	11.2	106
84	Effects of post-treatment method and Na co-cation on the hydrothermal stability of Cuâ€“SSZ-13 catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2015, 179, 206-212.	20.2	105
85	Reduction of lean NOx by ethanol over Ag/Al2O3 catalysts in the presence of H2O and SO2. Catalysis Letters, 1998, 50, 87-91.	2.6	104
86	The Remarkable Improvement of a Ceï£¿Ti based Catalyst for NO_{<i>x</i>} Abatement, Prepared by a Homogeneous Precipitation Method. ChemCatChem, 2011, 3, 1286-1289.	3.7	103
87	Decomposition of high-level ozone under high humidity over Mnâ€“Fe catalyst: The influence of iron precursors. Catalysis Communications, 2015, 59, 156-160.	3.3	103
88	Synergetic formation of secondary inorganic and organic aerosol: effect of SO₂ and NH₃ on particle formation and growth. Atmospheric Chemistry and Physics, 2016, 16, 14219-14230.	4.9	102
89	Sodium Enhances Ir/TiO₂ Activity for Catalytic Oxidation of Formaldehyde at Ambient Temperature. ACS Catalysis, 2018, 8, 11377-11385.	11.2	102
90	Role of Structural Defects in MnO_{<i>x</i>} Promoted by Ag Doping in the Catalytic Combustion of Volatile Organic Compounds and Ambient Decomposition of O₃. Environmental Science & Technology, 2019, 53, 10871-10879.	10.0	100

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91	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Catalysis Today, 2011, 164, 520-527.	4.4	98
92	A superior Fe-V-Ti catalyst with high activity and SO2 resistance for the selective catalytic reduction of NO with NH3. Journal of Hazardous Materials, 2020, 382, 120970.	12.4	95
93	Formation and reactivity of isocyanate (NCO) species on Ag/Al2O3. Journal of the Chemical Society, Faraday Transactions, 1998, 94, 2217-2219.	1.7	93
94	Well-dispersed palladium supported on ordered mesoporous Co3O4 for catalytic oxidation of o-xylene. Applied Catalysis B: Environmental, 2013, 142-143, 72-79.	20.2	93
95	Recent advances in catalytic decomposition of ozone. Journal of Environmental Sciences, 2020, 94, 14-31.	6.1	93
96	Haze insights and mitigation in China: An overview. Journal of Environmental Sciences, 2014, 26, 2-12.	6.1	91
97	High-performance of Cu-TiO2 for photocatalytic oxidation of formaldehyde under visible light and the mechanism study. Chemical Engineering Journal, 2020, 390, 124481.	12.7	91
98	Enhanced Activity of Ti-Modified V₂O₅/CeO₂ Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Industrial & Engineering Chemistry Research, 2014, 53, 19506-19511.	3.7	88
99	Precise control of post-treatment significantly increases hydrothermal stability of in-situ synthesized cu-zeolites for NH3-SCR reaction. Applied Catalysis B: Environmental, 2020, 266, 118655.	20.2	88
100	Structural and hygroscopic changes of soot during heterogeneous reaction with O3. Physical Chemistry Chemical Physics, 2010, 12, 10896.	2.8	86
101	Effect of Support on the Activity of Ag-based Catalysts for Formaldehyde Oxidation. Scientific Reports, 2015, 5, 12950.	3.3	86
102	Promotion of ceria for decomposition of ammonia bisulfate over V2O5-MoO3/TiO2 catalyst for selective catalytic reduction. Chemical Engineering Journal, 2016, 303, 275-281.	12.7	84
103	Morphology-dependent bactericidal activities of Ag/CeO2 catalysts against Escherichia coli. Journal of Inorganic Biochemistry, 2014, 135, 45-53.	3.5	83
104	Superior Oxidative Dehydrogenation Performance toward NH₃ Determines the Excellent Low-Temperature NH₃-SCR Activity of Mn-Based Catalysts. Environmental Science & Technology, 2021, 55, 6995-7003.	10.0	83
105	Promotion effect of residual K on the decomposition of N2O over cobaltâ€“cerium mixed oxide catalyst. Catalysis Today, 2007, 126, 449-455.	4.4	82
106	NO promotion of SO2 conversion to sulfate: An important mechanism for the occurrence of heavy haze during winter in Beijing. Environmental Pollution, 2018, 233, 662-669.	7.5	82
107	Identification of a Facile Pathway for Dioxymethylene Conversion to Formate Catalyzed by Surface Hydroxyl on TiO₂-Based Catalyst. ACS Catalysis, 2020, 10, 9706-9715.	11.2	82
108	Magnetic coreâ€“shell Fe3O4@C-SO3H nanoparticle catalyst for hydrolysis of cellulose. Cellulose, 2013, 20, 127-134.	4.9	81

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109	A review of experimental techniques for aerosol hygroscopicity studies. Atmospheric Chemistry and Physics, 2019, 19, 12631-12686.	4.9	80
110	Insights into the Activation Effect of H₂ Pretreatment on Ag/Al₂O₃ Catalyst for the Selective Oxidation of Ammonia. ACS Catalysis, 2019, 9, 1437-1445.	11.2	78
111	Ozonation of alachlor catalyzed by Cu/Al2O3 in water. Catalysis Today, 2004, 90, 291-296.	4.4	77
112	Exploring the nitrous acid (HONO) formation mechanism in winter Beijing: direct emissions and heterogeneous production in urban and suburban areas. Faraday Discussions, 2016, 189, 213-230.	3.2	77
113	SO₂ Initiates the Efficient Conversion of NO₂ to HONO on MgO Surface. Environmental Science & Technology, 2017, 51, 3767-3775.	10.0	76
114	Effect of V₂O₅ Additive on the SO₂ Resistance of a Fe₂O₃/AC Catalyst for NH₃-SCR of NO_{<i>x</i>} at Low Temperatures. Industrial & Engineering Chemistry Research, 2016, 55, 2677-2685.	3.7	75
115	Oxygen vacancy clusters essential for the catalytic activity of CeO2 nanocubes for o-xylene oxidation. Scientific Reports, 2017, 7, 12845.	3.3	75
116	Ozone and SOA formation potential based on photochemical loss of VOCs during the Beijing summer. Environmental Pollution, 2021, 285, 117444.	7.5	75
117	DRIFTS study of a Ceâ€"W mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Catalysis Science and Technology, 2015, 5, 2290-2299.	4.1	74
118	Is reducing new particle formation a plausible solution to mitigate particulate air pollution in Beijing and other Chinese megacities?. Faraday Discussions, 2021, 226, 334-347.	3.2	74
119	Novel Enolic Surface Species Formed during Partial Oxidation of CH3CHO, C2H5OH, and C3H6on Ag/Al2O3:Â An in Situ DRIFTS Study. Journal of Physical Chemistry B, 2003, 107, 13090-13092.	2.6	71
120	Heterogeneous reaction of acetic acid on MgO, Î±-Al2O3, and CaCO3 and the effect on the hygroscopic behaviour of these particles. Physical Chemistry Chemical Physics, 2012, 14, 8403.	2.8	71
121	Theory and practice of metal oxide catalyst design for the selective catalytic reduction of NO with NH3. Catalysis Today, 2021, 376, 292-301.	4.4	71
122	Hydrothermal aging alleviates the inhibition effects of NO2 on Cu-SSZ-13 for NH3-SCR. Applied Catalysis B: Environmental, 2020, 275, 119105.	20.2	71
123	A comparative study of Ag/Al2O3 and Cu/Al2O3 catalysts for the selective catalytic reduction of NO by C3H6. Catalysis Today, 2004, 90, 191-197.	4.4	70
124	Catalytic Ozonation of Herbicide 2,4-D over Cobalt Oxide Supported on Mesoporous Zirconia. Journal of Physical Chemistry C, 2008, 112, 5978-5983.	3.1	70
125	Role of Organic Carbon in Heterogeneous Reaction of NO₂ with Soot. Environmental Science & Technology, 2013, 47, 3174-3181.	10.0	70
126	Heterogeneous reaction of SO2 with soot: The roles of relative humidity and surface composition of soot in surface sulfate formation. Atmospheric Environment, 2017, 152, 465-476.	4.1	68

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127	Key role of organic carbon in the sunlight-enhanced atmospheric aging of soot by O ₂. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21250-21255.	7.1	66
128	Synergistic formation of sulfate and ammonium resulting from reaction between SO₂and NH₃on typical mineral dust. Physical Chemistry Chemical Physics, 2016, 18, 956-964.	2.8	66
129	Design of High-Performance Ironâ€“Niobium Composite Oxide Catalysts for NH₃-SCR: Insights into the Interaction between Fe and Nb. ACS Catalysis, 2021, 11, 9825-9836.	11.2	66
130	Complete oxidation of formaldehyde at room temperature over an Al-rich Beta zeolite supported platinum catalyst. Applied Catalysis B: Environmental, 2017, 219, 200-208.	20.2	65
131	Facet-dependent performance of anatase TiO2 for photocatalytic oxidation of gaseous ammonia. Applied Catalysis B: Environmental, 2018, 223, 209-215.	20.2	65
132	In situ DRIFTS study of hygroscopic behavior of mineral aerosol. Journal of Environmental Sciences, 2010, 22, 555-560.	6.1	64
133	Nature of Ag Species on Ag/Î³-Al₂O₃: A Combined Experimental and Theoretical Study. ACS Catalysis, 2014, 4, 2776-2784.	11.2	64
134	Adsorption-Induced Active Vanadium Species Facilitate Excellent Performance in Low-Temperature Catalytic NO_{<i>x</i>} Abatement. Journal of the American Chemical Society, 2021, 143, 10454-10461.	13.7	64
135	Dynamic Characterization of the Intermediates for Low-Temperature PROX Reaction of CO in H₂â€”Oxidation of CO with OH via HCOO Intermediate. Journal of Physical Chemistry C, 2009, 113, 12427-12433.	3.1	63
136	Shape dependence of nanoceria on complete catalytic oxidation of o-xylene. Catalysis Science and Technology, 2016, 6, 4840-4848.	4.1	62
137	Variations and sources of nitrous acid (HONO) during a severe pollution episode in Beijing in winter 2016. Science of the Total Environment, 2019, 648, 253-262.	8.0	62
138	Deactivation of Cu-SSZ-13 in the presence of SO2 during hydrothermal aging. Catalysis Today, 2019, 320, 84-90.	4.4	62
139	Bactericidal Mechanism of Ag/Al₂O₃ against <i>Escherichia coli</i>. Langmuir, 2007, 23, 11197-11199.	3.5	60
140	A Nonoxide Catalyst System Study: Alkali Metal-Promoted Pt/AC Catalyst for Formaldehyde Oxidation at Ambient Temperature. ACS Catalysis, 2021, 11, 456-465.	11.2	60
141	A New Catalyst for Selective Oxidation of CO in H₂: Part 1, Activation by Depositing a Large Amount of FeO_xon Pt/Al₂O₃and Pt/CeO₂Catalysts. Catalysis Letters, 2004, 92, 115-121.	2.6	59
142	Role of Carbonaceous Aerosols in Catalyzing Sulfate Formation. ACS Catalysis, 2018, 8, 3825-3832.	11.2	59
143	Selective oxidation of ammonia over copper-silver-based catalysts. Catalysis Today, 2004, 90, 263-267.	4.4	58
144	Ordered mesoporous and bulk Co3O4 supported Pd catalysts for catalytic oxidation of o-xylene. Catalysis Today, 2015, 242, 294-299.	4.4	58

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145	Palladium supported on low-surface-area fiber-based materials for catalytic oxidation of volatile organic compounds. Chemical Engineering Journal, 2018, 348, 361-369.	12.7	58
146	Effects of NO₂ Addition on the NH₃-SCR over Small-Pore Cuâ€“SSZ-13 Zeolites with Varying Cu Loadings. Journal of Physical Chemistry C, 2018, 122, 25948-25953.	3.1	58
147	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.	12.7	58
148	Significant enhancement of the oxidation of CO by H2 and/or H2O on a FeO x /Pt/TiO2 catalyst. Catalysis Letters, 2006, 110, 185-190.	2.6	56
149	Review of Ag/Al2O3-Reductant System in the Selective Catalytic Reduction of NO x. Catalysis Surveys From Asia, 2008, 12, 38-55.	2.6	56
150	Photocatalytic oxidation of gaseous ammonia over fluorinated TiO2 with exposed (001) facets. Applied Catalysis B: Environmental, 2014, 152-153, 82-87.	20.2	56
151	Heterogeneous Reaction of SO2 on Manganese Oxides: the Effect of Crystal Structure and Relative Humidity. Scientific Reports, 2017, 7, 4550.	3.3	56
152	Novel Pd promoted Ag/Al2O3 catalyst for the selective reduction of NOx. Applied Catalysis B: Environmental, 2003, 46, 365-370.	20.2	55
153	Recent advances in three-way catalysts of natural gas vehicles. Catalysis Science and Technology, 2020, 10, 6407-6419.	4.1	55
154	Precipitable silver compound catalysts for the selective catalytic reduction of NOx by ethanol. Applied Catalysis A: General, 2010, 375, 258-264.	4.3	54
155	Continuous and comprehensive atmospheric observations in Beijing: a station to understand the complex urban atmospheric environment. Big Earth Data, 2020, 4, 295-321.	4.4	54
156	Improvement of Nb Doping on SO₂ Resistance of VO_{<i>x</i>}/CeO₂ Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Journal of Physical Chemistry C, 2017, 121, 7803-7809.	3.1	53
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