

Zhengping Hao

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

216 papers	9,566 citations	52 h-index	88 g-index
226 ext. papers	11,182 ext. citations	8.8 avg, IF	6.32 L-index

#	Paper	IF	Citations
216	Recent Advances in the Catalytic Oxidation of Volatile Organic Compounds: A Review Based on Pollutant Sorts and Sources. <i>Chemical Reviews</i> , 2019 , 119, 4471-4568	68.1	597
215	The air-borne particulate pollution in Beijing—concentration, composition, distribution and sources. <i>Atmospheric Environment</i> , 2004 , 38, 5991-6004	5.3	473
214	Mesoporous Co ₃ O ₄ and Au/Co ₃ O ₄ catalysts for low-temperature oxidation of trace ethylene. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2608-13	16.4	406
213	Investigation of formaldehyde oxidation over Co ₃ O ₄ -Ce ₂ and Au/Co ₃ O ₄ -CeO ₂ catalysts at room temperature: effective removal and determination of reaction mechanism. <i>Environmental Science & Technology</i> , 2011 , 45, 3628-34	10.3	234
212	H ₂ S-Selective Catalytic Oxidation: Catalysts and Processes. <i>ACS Catalysis</i> , 2015 , 5, 1053-1067	13.1	180
211	Fabrication and Size-Selective Bioseparation of Magnetic Silica Nanospheres with Highly Ordered Periodic Mesosstructure. <i>Advanced Functional Materials</i> , 2008 , 18, 3203-3212	15.6	170
210	Synergistic and competitive adsorption of organic dyes on multiwalled carbon nanotubes. <i>Chemical Engineering Journal</i> , 2012 , 197, 34-40	14.7	161
209	Adsorption performance of VOCs in ordered mesoporous silicas with different pore structures and surface chemistry. <i>Journal of Hazardous Materials</i> , 2011 , 186, 1615-24	12.8	160
208	Photocatalytic degradation of triazine-containing azo dyes in aqueous TiO ₂ suspensions. <i>Applied Catalysis B: Environmental</i> , 2003 , 42, 47-55	21.8	149
207	Synthesis of graphene/NiFe ₂ O ₄ nanocomposites and their electrochemical capacitive behavior. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 6393	13	141
206	Long-term monitoring and source apportionment of PM _{2.5} /PM ₁₀ in Beijing, China. <i>Journal of Environmental Sciences</i> , 2008 , 20, 1323-7	6.4	132
205	Effective desalination by capacitive deionization with functional graphene nanocomposite as novel electrode material. <i>Desalination</i> , 2012 , 299, 96-102	10.3	130
204	Development of novel MnO ₂ /nanoporous carbon composite electrodes in capacitive deionization technology. <i>Desalination</i> , 2011 , 276, 199-206	10.3	128
203	Catalytic oxidation of benzyl alcohol on Au or Au/Pd nanoparticles confined in mesoporous silica. <i>Applied Catalysis B: Environmental</i> , 2009 , 92, 202-208	21.8	127
202	Improving adsorbent properties of cage-like ordered amine functionalized mesoporous silica with very large pores for bioadsorption. <i>Langmuir</i> , 2009 , 25, 6413-24	4	125
201	Functionalized Mesoporous Silica with Very Large Pores for Cellulase Immobilization. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 8353-8362	3.8	123
200	Facilely synthesized Fe ₂ O ₃ /graphene nanocomposite as novel electrode materials for supercapacitors with high performance. <i>Journal of Alloys and Compounds</i> , 2013 , 552, 486-491	5.7	119

199	Effect of pH on DDT degradation in aqueous solution using bimetallic Ni/Fe nanoparticles. <i>Separation and Purification Technology</i> , 2009 , 66, 84-89	8.3	116
198	Supported gold catalysts used for ozone decomposition and simultaneous elimination of ozone and carbon monoxide at ambient temperature. <i>Applied Catalysis B: Environmental</i> , 2001 , 33, 217-222	21.8	107
197	RuO ₂ /graphene hybrid material for high performance electrochemical capacitor. <i>Journal of Power Sources</i> , 2014 , 248, 407-415	8.9	106
196	Sphere-Shaped MnO Catalyst with Remarkable Low-Temperature Activity for Methyl-Ethyl-Ketone Combustion. <i>Environmental Science & Technology</i> , 2017 , 51, 6288-6297	10.3	105
195	Low-temperature removal of toluene and propanal over highly active mesoporous CuCeOx catalysts synthesized via a simple self-precipitation protocol. <i>Applied Catalysis B: Environmental</i> , 2014 , 147, 156-166	21.8	104
194	Characterization and assessment of volatile organic compounds (VOCs) emissions from typical industries. <i>Science Bulletin</i> , 2013 , 58, 724-730		102
193	Preparation and capacitance of graphene/multiwall carbon nanotubes/MnO ₂ hybrid material for high-performance asymmetrical electrochemical capacitor. <i>Electrochimica Acta</i> , 2013 , 89, 191-198	6.7	98
192	Environmentally persistent free radicals mediated removal of Cr(VI) from highly saline water by corn straw biochars. <i>Bioresource Technology</i> , 2018 , 260, 294-301	11	91
191	Adsorption of benzene, cyclohexane and hexane on ordered mesoporous carbon. <i>Journal of Environmental Sciences</i> , 2015 , 30, 65-73	6.4	88
190	Adsorption and coadsorption mechanisms of Cr(VI) and organic contaminants on HPO treated biochar. <i>Chemosphere</i> , 2017 , 186, 422-429	8.4	88
189	Adsorption and desorption performance of benzene over hierarchically structured carbon-silica aerogel composites. <i>Journal of Hazardous Materials</i> , 2011 , 196, 194-200	12.8	84
188	Comprehensive investigation of Pd/ZSM-5/MCM-48 composite catalysts with enhanced activity and stability for benzene oxidation. <i>Applied Catalysis B: Environmental</i> , 2010 , 96, 466-475	21.8	82
187	Comparative Studies on Porous Material-Supported Pd Catalysts for Catalytic Oxidation of Benzene, Toluene, and Ethyl Acetate. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6930-6938	3.9	80
186	Synthesis of nanosized nickel ferrites by shock waves and their magnetic properties. <i>Materials Research Bulletin</i> , 2001 , 36, 2357-2363	5.1	76
185	Selective catalytic oxidation of H ₂ over iron oxide supported on alumina-intercalated Laponite clay catalysts. <i>Journal of Hazardous Materials</i> , 2013 , 260, 104-111	12.8	71
184	Oxidation of nitric oxide to nitrogen dioxide over Ru catalysts. <i>Applied Catalysis B: Environmental</i> , 2009 , 88, 224-231	21.8	69
183	Catalytic oxidation of 1,2-dichloroethane over three-dimensional ordered meso-macroporous Co ₃ O ₄ /La _{0.7} Sr _{0.3} Fe _{0.5} Co _{0.5} O ₃ : Destruction route and mechanism. <i>Applied Catalysis A: General</i> , 2018 , 553, 1-14	5.1	67
182	Pd-containing perovskite-type oxides used for three-way catalysts. <i>Journal of Molecular Catalysis A</i> , 2002 , 189, 225-232		67

181	Characterization and photocatalytic activity of noble-metal-supported surface TiO ₂ /SiO ₂ . <i>Applied Catalysis A: General</i> , 2003 , 253, 389-396	5.1	67
180	Catalytic oxidation of NO over TiO ₂ supported platinum clusters I. Preparation, characterization and catalytic properties. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 259-266	21.8	66
179	Removal of cobalt(II) ion from aqueous solution by chitosan-montmorillonite. <i>Journal of Environmental Sciences</i> , 2014 , 26, 1879-84	6.4	65
178	Preparation and capacitance properties of graphene/NiAl layered double-hydroxide nanocomposite. <i>Journal of Colloid and Interface Science</i> , 2013 , 396, 251-7	9.3	65
177	Mesoporous carbon-confined Au catalysts with superior activity for selective oxidation of glucose to gluconic acid. <i>Green Chemistry</i> , 2013 , 15, 1035	10	65
176	A study on N ₂ O catalytic decomposition over Co/MgO catalysts. <i>Journal of Hazardous Materials</i> , 2009 , 163, 1332-7	12.8	65
175	Surface-Functionalized Periodic Mesoporous Organosilica Hollow Spheres. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8673-8682	3.8	64
174	Catalytic combustion of methane over mixed oxides derived from Co/Mg/Al ternary hydrotalcites. <i>Fuel Processing Technology</i> , 2010 , 91, 97-102	7.2	64
173	Atomic-Scale Insights into the Low-Temperature Oxidation of Methanol over a Single-Atom Pt ₁ -Co ₃ O ₄ Catalyst. <i>Advanced Functional Materials</i> , 2019 , 29, 1902041	15.6	62
172	Understanding the Promotional Effect of Mn ₂ O ₃ on Micro-/Mesoporous Hybrid Silica Nanocubic-Supported Pt Catalysts for the Low-Temperature Destruction of Methyl Ethyl Ketone: An Experimental and Theoretical Study. <i>ACS Catalysis</i> , 2018 , 8, 4213-4229	13.1	62
171	Influence of pretreatment conditions on low-temperature CO oxidation over Au/MO _x /Al ₂ O ₃ catalysts. <i>Journal of Molecular Catalysis A</i> , 2003 , 200, 229-238		61
170	Iron-exchanged FAU zeolites: Preparation, characterization and catalytic properties for N ₂ O decomposition. <i>Applied Catalysis A: General</i> , 2008 , 344, 131-141	5.1	60
169	Highly active manganese oxide catalysts for low-temperature oxidation of formaldehyde. <i>Microporous and Mesoporous Materials</i> , 2012 , 151, 397-402	5.3	56
168	Novel CH ₄ Combustion Catalysts Derived from Cu ₂ O/XAl (X = Fe, Mn, La, Ce) Hydrotalcite-like Compounds. <i>Energy & Fuels</i> , 2008 , 22, 2131-2137	4.1	56
167	Facile synthesis of catalytically active CeO ₂ for soot combustion. <i>Catalysis Science and Technology</i> , 2015 , 5, 1941-1952	5.5	54
166	Investigation of Selective Catalytic Reduction of N ₂ O by NH ₃ over an Fe/Mordenite Catalyst: Reaction Mechanism and O ₂ Effect. <i>ACS Catalysis</i> , 2012 , 2, 512-520	13.1	54
165	H ₂ S selective catalytic oxidation over Ce substituted La _{1-x} Ce _x FeO ₃ perovskite oxides catalyst. <i>Chemical Engineering Journal</i> , 2018 , 348, 831-839	14.7	53
164	Catalytic oxidation of NO over TiO ₂ supported platinum clusters. II: Mechanism study by in situ FTIR spectra. <i>Catalysis Today</i> , 2010 , 158, 361-369	5.3	51

163	How to achieve complete elimination of Cl-VOCs: A critical review on byproducts formation and inhibition strategies during catalytic oxidation. <i>Chemical Engineering Journal</i> , 2021 , 404, 126534	14.7	51
162	Solvothermal-induced phase transition and visible photocatalytic activity of nitrogen-doped titania. <i>Journal of Hazardous Materials</i> , 2009 , 163, 273-8	12.8	50
161	Synthesis and characterization of Pd/ZSM-5/MCM-48 biporous catalysts with superior activity for benzene oxidation. <i>Applied Catalysis A: General</i> , 2010 , 382, 167-175	5.1	50
160	Understanding the Active Sites of Ag/Zeolites and Deactivation Mechanism of Ethylene Catalytic Oxidation at Room Temperature. <i>ACS Catalysis</i> , 2018 , 8, 1248-1258	13.1	49
159	Synthesis of novel hyper-cross-linked polymers as adsorbent for removing organic pollutants from humid streams. <i>Chemical Engineering Journal</i> , 2015 , 281, 34-41	14.7	48
158	Porous graphitized carbon for adsorptive removal of benzene and the electrothermal regeneration. <i>Environmental Science & Technology</i> , 2012 , 46, 12648-54	10.3	48
157	Catalytic combustion of benzene on Co/CeO ₂ /SBA-15 and Co/SBA-15 catalysts. <i>Catalysis Communications</i> , 2008 , 9, 1874-1877	3.2	48
156	Catalytic combustion of methane on novel catalysts derived from Cu-Mg/Al-hydrotalcites. <i>Catalysis Letters</i> , 2005 , 99, 157-163	2.8	48
155	Insight into the efficient oxidation of methyl-ethyl-ketone over hierarchically micro-mesostructured Pt/K-(Al)SiO ₂ nanorod catalysts: Structure-activity relationships and mechanism. <i>Applied Catalysis B: Environmental</i> , 2018 , 226, 220-233	21.8	48
154	Using shell-tunable mesoporous Fe ₃ O ₄ @HMS and magnetic separation to remove DDT from aqueous media. <i>Journal of Hazardous Materials</i> , 2009 , 171, 459-64	12.8	47
153	Nanometric palladium confined in mesoporous silica as efficient catalysts for toluene oxidation at low temperature. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 46-57	21.8	46
152	Mesoporous silica supported cobalt oxide catalysts for catalytic removal of benzene. <i>Journal of Porous Materials</i> , 2008 , 15, 163-169	2.4	46
151	Zr-Laponite pillared clay-based nickel catalysts for methane reforming with carbon dioxide. <i>Applied Catalysis A: General</i> , 2003 , 242, 275-286	5.1	46
150	Mesoporous KIT-6 silica/polydimethylsiloxane (PDMS) mixed matrix membranes for gas separation. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 8650-8658	13	45
149	Efficient capture of CO ₂ over ordered micro-mesoporous hybrid carbon nanosphere. <i>Applied Surface Science</i> , 2018 , 439, 113-121	6.7	45
148	Characterization and catalytic performance of Co/SBA-15 supported gold catalysts for CO oxidation. <i>Materials Research Bulletin</i> , 2006 , 41, 406-413	5.1	45
147	Graphene/MnO ₂ hybrid film with high capacitive performance. <i>Electrochimica Acta</i> , 2015 , 154, 300-307	6.7	44
146	Selective Catalytic Oxidation of H ₂ S over Well-Mixed Oxides Derived from Mg ₂ Al ₂ (OH) ₆ Layered Double Hydroxides. <i>ACS Catalysis</i> , 2014 , 4, 1500-1510	13.1	44

- 145 Insights into CeO₂-modified NiMgAl oxides for pressurized carbon dioxide reforming of methane. *Chemical Engineering Journal*, **2015**, 259, 581-593 14.7 43
- 144 Functional graphene nanocomposite as an electrode for the capacitive removal of FeCl₃ from water. *Journal of Materials Chemistry*, **2012**, 22, 14101 43
- 143 Hydrophobic conjugated microporous polymer as a novel adsorbent for removal of volatile organic compounds. *Journal of Materials Chemistry A*, **2014**, 2, 14028-14037 13 42
- 142 Comprehensive study of H₂S selective catalytic oxidation on combined oxides derived from Mg/Al-V10O₂₈ layered double hydroxides. *Applied Catalysis B: Environmental*, **2015**, 176-177, 130-138 21.8 41
- 141 Selective Hydrogenation of Cinnamaldehyde over Pt and Pd Supported on Multiwalled Carbon Nanotubes in a CO₂-Expanded Alcoholic Medium. *Industrial & Engineering Chemistry Research*, **2012**, 51, 11112-11121 3.9 41
- 140 Hybrids of NiCo₂O₄ nanorods and nanobundles with graphene as promising electrode materials for supercapacitors. *Journal of Colloid and Interface Science*, **2015**, 460, 303-9 9.3 40
- 139 Mechanism of Gold Activation in Supported Gold Catalysts for CO Oxidation. *Reaction Kinetics and Catalysis Letters*, **2000**, 70, 153-160 40
- 138 Efficient elimination of trace ethylene over nano-gold catalyst under ambient conditions. *Environmental Science & Technology*, **2008**, 42, 8947-51 10.3 39
- 137 Source apportionment for urban PM₁₀ and PM_{2.5} in the Beijing area. *Science Bulletin*, **2007**, 52, 608-615 39
- 136 Insight into the HS selective catalytic oxidation performance on well-mixed Ce-containing rare earth catalysts derived from MgAlCe layered double hydroxides. *Journal of Hazardous Materials*, **2018**, 342, 749-757 12.8 37
- 135 Facile preparation of 3D ordered mesoporous CuOx/TeO₂ with notably enhanced efficiency for the low temperature oxidation of heteroatom-containing volatile organic compounds. *RSC Advances*, **2013**, 3, 19639 3.7 37
- 134 Levels of polycyclic aromatic hydrocarbons in different types of hospital waste incinerator ashes. *Science of the Total Environment*, **2008**, 397, 24-30 10.2 37
- 133 Direct synthesis of lanthanide-containing SBA-15 under weak acidic conditions and its catalytic study. *Microporous and Mesoporous Materials*, **2008**, 113, 72-80 5.3 37
- 132 Selective oxidation of H₂S over V₂O₅ supported on CeO₂-intercalated Laponite clay catalysts. *Catalysis Science and Technology*, **2013**, 3, 2778 5.5 36
- 131 Catalytic behavior and reaction routes of MEK oxidation over Pd/ZSM-5 and Pd-Ce/ZSM-5 catalysts. *Journal of Hazardous Materials*, **2013**, 244-245, 613-20 12.8 36
- 130 Efficient defect engineering in Co-Mn binary oxides for low-temperature propane oxidation. *Applied Catalysis B: Environmental*, **2021**, 282, 119512 21.8 36
- 129 A new type of ordered mesoporous carbon/polyaniline composites prepared by a two-step nanocasting method for high performance supercapacitor applications. *Journal of Materials Chemistry A*, **2014**, 2, 16715-16722 13 34
- 128 Porous Montmorillonite Heterostructures Directed by a Single Alkyl Ammonium Template for Controlling the Product Distribution of Fischer-Tropsch Synthesis over Cobalt. *Chemistry of Materials*, **2012**, 24, 972-974 9.6 34

127	Catalytic oxidation of benzene over nanostructured porous Co ₃ O ₄ -CeO ₂ composite catalysts. <i>Journal of Environmental Sciences</i> , 2011 , 23, 2078-86	6.4	34
126	Adsorption-Template preparation of polyanilines with different morphologies and their capacitance. <i>Electrochimica Acta</i> , 2014 , 145, 99-108	6.7	33
125	N ₂ O catalytic reduction by NH ₃ over Fe-zeolites: Effective removal and active site. <i>Catalysis Communications</i> , 2012 , 18, 151-155	3.2	33
124	Integrated assessment of CO ₂ reduction technologies in China's cement industry. <i>International Journal of Greenhouse Gas Control</i> , 2014 , 20, 27-36	4.2	32
123	Decomposition of nitrous oxide over Co-zeolite catalysts: role of zeolite structure and active site. <i>Catalysis Science and Technology</i> , 2012 , 2, 1249	5.5	32
122	Tuning the micromorphology and exposed facets of MnO _x promotes methyl ethyl ketone low-temperature abatement: boosting oxygen activation and electron transmission. <i>Catalysis Science and Technology</i> , 2018 , 8, 3863-3875	5.5	30
121	Catalytic removal of 1,2-dichloroethane over LaSrMnCoO ₆ /H-ZSM-5 composite: insights into synergistic effect and pollutant-destruction mechanism. <i>Catalysis Science and Technology</i> , 2018 , 8, 4503-4514	5.5	29
120	Catalytic oxidation performances of typical oxygenated volatile organic compounds (acetone and acetaldehyde) over MAIO (M = Mn, Co, Ni, Fe) hydrotalcite-derived oxides. <i>Catalysis Today</i> , 2019 , 327, 389-397	5.3	29
119	Simultaneous redox conversion and sequestration of chromate(VI) and arsenite(III) by iron(III)-alginate based photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118046	21.8	28
118	CeO ₂ -Co ₃ O ₄ Catalysts for CO Oxidation. <i>Journal of Rare Earths</i> , 2006 , 24, 172-176	3.7	28
117	Surface properties enhanced Mn _x AlO oxide catalysts derived from Mn _x Al layered double hydroxides for acetone catalytic oxidation at low temperature. <i>Applied Catalysis B: Environmental</i> , 2019 , 251, 295-304	21.8	27
116	Chemically crosslinked rGO laminate film as an ion selective barrier of composite membrane. <i>Journal of Membrane Science</i> , 2016 , 515, 204-211	9.6	27
115	Synthesis and hydrophobic adsorption properties of microporous/mesoporous hybrid materials. <i>Journal of Hazardous Materials</i> , 2009 , 164, 1205-12	12.8	27
114	Catalytic combustion of methane over La ₂ Ti _{0.3} Zr _{1.7} O ₇ (TM = Mn, Fe, and Co) pyrochlore oxides. <i>Catalysis Communications</i> , 2009 , 10, 1170-1173	3.2	27
113	Synthesis of mesoporous Co/Ce-SBA-15 materials and their catalytic performance in the catalytic oxidation of benzene. <i>Materials Research Bulletin</i> , 2008 , 43, 2599-2606	5.1	27
112	A new and generic preparation method of mesoporous clay composites containing dispersed metal oxide nanoparticles. <i>Microporous and Mesoporous Materials</i> , 2008 , 114, 214-221	5.3	27
111	Templated Silica with Increased Surface Area and Expanded Microporosity: Synthesis, Characterization, and Catalytic Application. <i>Chemical Engineering Journal</i> , 2010 , 162, 901-909	14.7	26
110	Catalytic combustion of methane over cobalt doped lanthanum stannate pyrochlore oxide. <i>Catalysis Communications</i> , 2008 , 9, 690-695	3.2	26

109	In situ electron paramagnetic resonance (EPR) study of surface oxygen species on Au/ZnO catalyst for low-temperature carbon monoxide oxidation. <i>Applied Catalysis A: General</i> , 2001 , 213, 173-177	5.1	26
108	Continuous CO ₂ esterification to diethyl carbonate (DEC) at atmospheric pressure: application of porous membranes for in situ H ₂ O removal. <i>Green Chemistry</i> , 2017 , 19, 3595-3600	10	25
107	High-performance Ni ₃ SiO ₂ for pressurized carbon dioxide reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 11592-11605	6.7	25
106	Hydrophobic micro/mesoporous silica spheres assembled from zeolite precursors in acidic media for aromatics adsorption. <i>Microporous and Mesoporous Materials</i> , 2010 , 133, 115-123	5.3	25
105	Layered sphere-shaped TiO ₂ capped with gold nanoparticles on structural defects and their catalysis of formaldehyde oxidation. <i>Journal of Environmental Sciences</i> , 2016 , 39, 77-85	6.4	24
104	Adsorption properties of benzene and water vapor on hyper-cross-linked polymers. <i>RSC Advances</i> , 2013 , 3, 20523	3.7	24
103	Removal of DDT from aqueous solutions using mesoporous silica materials. <i>Journal of Chemical Technology and Biotechnology</i> , 2009 , 84, 490-496	3.5	24
102	Characterization of PM _{2.5} /PM _{2.5-10} and source tracking in the juncture belt between urban and rural areas of Beijing. <i>Science Bulletin</i> , 2009 , 54, 2506-2515		24
101	A study on the synergistic adsorptive and photocatalytic activities of TiO ₂ -N _x /Beta composite catalysts under visible light irradiation. <i>Chemical Engineering Journal</i> , 2010 , 165, 301-309	14.7	24
100	Effect of calcination temperature and reaction conditions on methane partial oxidation using lanthanum-based perovskite as oxygen donor. <i>Journal of Rare Earths</i> , 2008 , 26, 341-346	3.7	24
99	Catalytic behaviors of combined oxides derived from Mg/Al _x Fe _{1-x} layered double hydroxides for H ₂ S selective oxidation. <i>Catalysis Science and Technology</i> , 2015 , 5, 4991-4999	5.5	23
98	Topochemical Oxidation Preparation of Regular Hexagonal Manganese Oxide Nanoplates with Birnessite-Type Layered Structure. <i>Crystal Growth and Design</i> , 2014 , 14, 5626-5633	3.5	23
97	Catalytic combustion of chlorobenzene on the Ln modified Co/HMS. <i>Applied Catalysis B: Environmental</i> , 2012 , 127, 246-254	21.8	23
96	Catalytic activities and mechanism of formaldehyde oxidation over gold supported on MnO ₂ microsphere catalysts at room temperature. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 447-457	5.8	22
95	Supported Nanometric Pd Hierarchical Catalysts for Efficient Toluene Removal: Catalyst Characterization and Activity Elucidation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 7211-7222	3.9	22
94	Ligand-assisted preparation of highly active and stable nanometric Pd confined catalysts for deep catalytic oxidation of toluene. <i>Journal of Hazardous Materials</i> , 2010 , 181, 996-1003	12.8	22
93	Preparation of binary washcoat deposited on cordierite substrate for catalytic applications. <i>Ceramics International</i> , 2010 , 36, 529-534	5.1	22
92	Interfacial Force-Assisted In-Situ Fabrication of Graphene Oxide Membrane for Desalination. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27205-27214	9.5	21

91	Recent advances in technologies for the removal of volatile methylsiloxanes: A case in biogas purification process. <i>Critical Reviews in Environmental Science and Technology</i> , 2019 , 49, 2257-2313	11.1	20
90	One-Step, Continuous-Flow, Highly Catalytic Hydrogenation/Isomerization of Dicyclopentadiene to exo-Tetrahydrodicyclopentadiene over Ni-Supported Catalysts for the Production of High-Energy-Density Fuel. <i>Energy & Fuels</i> , 2013 , 27, 6339-6347	4.1	20
89	Sulfur-Resistant NO Decomposition Catalysts Derived from Co ₃ (NO) ₂ (CO) ₈ /TiAl Hydrotalcite-like Compounds. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6651-6660	3.8	20
88	Synthesis, characterization and evaluations of the Ag/ZSM-5 for ethylene oxidation at room temperature: Investigating the effect of water and deactivation. <i>Chemical Engineering Journal</i> , 2018 , 347, 808-818	14.7	19
87	Low-cost Scholl-coupling microporous polymer as an efficient solid-phase microextraction coating for the detection of light aromatic compounds. <i>Analytica Chimica Acta</i> , 2018 , 1029, 30-36	6.6	19
86	Highly Active and Stable Ni ₂ BiO ₂ Prepared by a Complex-Decomposition Method for Pressurized Carbon Dioxide Reforming of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 19077-19086	2.9	19
85	Fe-mordenite/cordierite monolith for the catalytic decomposition of nitrous oxide. <i>Ceramics International</i> , 2009 , 35, 3097-3101	5.1	19
84	Sulfonic acid functionalised SBA-15 as catalysts for Beckmann rearrangement and esterification reaction. <i>Journal of Porous Materials</i> , 2008 , 15, 139-143	2.4	19
83	Oxygen and nitrogen co-doped ordered mesoporous carbon materials enhanced the electrochemical selectivity of O reduction to HO. <i>Journal of Colloid and Interface Science</i> , 2020 , 562, 540-549	9.3	19
82	Study of DDT and its derivatives DDD, DDE adsorption and degradation over Fe-SBA-15 at low temperature. <i>Journal of Environmental Sciences</i> , 2012 , 24, 536-40	6.4	18
81	Nanometric Pd-confined mesoporous silica as high-efficient catalyst for toluene low temperature removal: Effects of support morphology and textural property. <i>Journal of Industrial and Engineering Chemistry</i> , 2012 , 18, 1598-1605	6.3	18
80	CoMOR zeolite catalyst prepared by buffered ion exchange for effective decomposition of nitrous oxide. <i>Journal of Hazardous Materials</i> , 2011 , 192, 1756-65	12.8	18
79	Water/oil microemulsion for the preparation of robust La-hexaaluminates for methane catalytic combustion. <i>Chemical Communications</i> , 2009 , 3225-7	5.8	18
78	Fluorine-enhanced Pt/ZSM-5 catalysts for low-temperature oxidation of ethylene. <i>Catalysis Science and Technology</i> , 2018 , 8, 1988-1996	5.5	17
77	Distribution and formation mechanisms of polychlorinated organic by-products upon the catalytic oxidation of 1,2-dichlorobenzene with palladium-loaded catalysts. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122412	12.8	16
76	Expanding mesoporosity of triblock-copolymer-templated silica under weak synthesis acidity. <i>Journal of Colloid and Interface Science</i> , 2009 , 339, 160-7	9.3	16
75	Catalytic combustion of benzene on the Pd/nanosize Al-HMS. <i>Microporous and Mesoporous Materials</i> , 2011 , 138, 215-220	5.3	16
74	Polycyclic aromatic hydrocarbons from rural household biomass burning in a typical Chinese village. <i>Science in China Series D: Earth Sciences</i> , 2008 , 51, 1013-1020		16

73	A superhydrophobic hyper-cross-linked polymer synthesized at room temperature used as an efficient adsorbent for volatile organic compounds. <i>RSC Advances</i> , 2016 , 6, 97048-97054	3.7	14
72	Novel synthesis and formation process of uniform Mn ₂ O ₃ cubes. <i>CrystEngComm</i> , 2012 , 14, 8253	3.3	14
71	Synthesis of MCM-48 with a high thermal and hydro-thermal stability. <i>Materials Research Bulletin</i> , 2005 , 40, 1775-1780	5.1	14
70	Insight into mineralizer modified and tailored scorodite crystal characteristics and leachability for arsenic-rich smelter wastewater stabilization.. <i>RSC Advances</i> , 2018 , 8, 19560-19569	3.7	14
69	Investigation of nitrous oxide decomposition over highly active and stable bimetallic CoFe-MOR zeolite catalyst: effective removal and mechanism study. <i>Catalysis Science and Technology</i> , 2012 , 2, 10595-10599	5.5	13
68	Room-temperature isomerization of 1-butene to 2-butene over palladium-loaded silica nanospheres catalyst. <i>Chemical Engineering Journal</i> , 2016 , 299, 1-7	14.7	13
67	Insights into the vanadia catalyzed oxidative dehydrogenation of isobutane with CO ₂ . <i>Chinese Journal of Catalysis</i> , 2014 , 35, 1329-1336	11.3	12
66	Nanocasting synthesis of graphitized ordered mesoporous carbon using Fe-coated SBA-15 template. <i>Materials Chemistry and Physics</i> , 2013 , 138, 484-489	4.4	12
65	High performance Pd catalysts supported on bimodal mesopore silica for the catalytic oxidation of toluene. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1686-1693	11.3	12
64	Deep catalytic oxidation of benzene, toluene, ethyl acetate over Pd/SBA-15 catalyst: reaction behaviors and kinetics. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, 705-715	1.3	12
63	Synthesis gas production using oxygen storage materials as oxygen carrier over circulating fluidized bed. <i>Journal of Rare Earths</i> , 2008 , 26, 76-80	3.7	12
62	Comprehensive review on catalytic degradation of Cl-VOCs under the practical application conditions. <i>Critical Reviews in Environmental Science and Technology</i> , 2020 , 1-45	11.1	12
61	Remarkable MnO structure-dependent HO promoting effect in HCHO oxidation at room temperature. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125542	12.8	12
60	Effects of acid pretreatment on Fe-ZSM-5 and Fe-beta catalysts for N ₂ O decomposition. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 898-907	11.3	11
59	Highly efficient removal of organic pollutants by ultrahigh-surface-area-ethynylbenzene-based conjugated microporous polymers via adsorption-photocatalysis synergy. <i>Catalysis Science and Technology</i> , 2018 , 8, 5024-5033	5.5	11
58	Novel Co-Mg-Al-Ti-O catalyst derived from hydrotalcite-like compound for NO storage/decomposition. <i>Journal of Environmental Sciences</i> , 2012 , 24, 488-93	6.4	11
57	Cobalt zeolites: Preparation, characterization and catalytic properties for N ₂ O decomposition. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012 , 7, 502-509	1.3	11
56	Synthesis of nanosized Al-HMS and its application in deep oxidation of benzene. <i>Catalysis Today</i> , 2010 , 158, 427-431	5.3	11

55	The effects of transition metal in Sn-based pyrochlores on the methane catalytic combustion. <i>Progress in Natural Science: Materials International</i> , 2005 , 15, 134-138	3.6	11
54	Direct dehydrogenation of isobutane to isobutene over carbon catalysts. <i>Chinese Journal of Catalysis</i> , 2015 , 36, 1214-1222	11.3	10
53	Synergistic effects of Cu species and acidity of Cu-ZSM-5 on catalytic performance for selective catalytic oxidation of n-butylamine. <i>Journal of Environmental Sciences</i> , 2020 , 96, 55-63	6.4	10
52	Study of the Influence of Pore Width on the Disposal of Benzene Employing Tunable OMCs. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1074-1080	3.9	10
51	Study of perovskite-type oxides and their supported Ag derivatives for catalytic oxidation of diesel soot. <i>Journal of Chemical Technology and Biotechnology</i> , 2002 , 77, 800-804	3.5	10
50	Catalytic performance and structural characterization of ferric oxide and its composite oxides supported gold catalysts for low-temperature CO oxidation. <i>Science in China Series B: Chemistry</i> , 2001 , 44, 596-605		10
49	Insights into the carbon catalyzed direct dehydrogenation of isobutane by employing modified OMCs. <i>Catalysis Science and Technology</i> , 2016 , 6, 4863-4871	5.5	9
48	A comprehensive investigation of influences of NO and O ₂ on N ₂ O-SCR by CH ₄ over Fe-USY zeolite. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 262-268	21.8	9
47	Wet ion exchanged Fe-USY catalyst for effective N ₂ O decomposition. <i>Catalysis Communications</i> , 2008 , 9, 1745-1748	3.2	9
46	Efficient recovery of hydrogen and sulfur resources over non-sulfide based LaFe ₂ Al ₁₂ -xO ₁₉ hexaaluminate catalysts by H ₂ S catalytic decomposition. <i>Applied Catalysis B: Environmental</i> , 2020 , 263, 118354	21.8	9
45	Hydrotalcite-derived Pd/Co ₃ Mn Al ₁ -O mixed oxides as efficient catalysts for complete oxidation of toluene. <i>Catalysis Today</i> , 2019 , 327, 382-388	5.3	9
44	Boosting carbonyl sulfide catalytic hydrolysis performance over N-doped Mg-Al oxide derived from MgAl-layered double hydroxide. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124546	12.8	9
43	Promotional effects and mechanism of second cations on activity and stability of Co-MOR for nitrous oxide decomposition: UV-Vis spectroscopy and EXAFS analysis. <i>Chemical Engineering Journal</i> , 2013 , 226, 95-104	14.7	8
42	Selective oxidation of H ₂ S over Fe supported on Zr-intercalated Laponite clay mesoporous composite catalysts at low temperature. <i>Catalysis Today</i> , 2020 , 355, 366-374	5.3	8
41	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. <i>Journal of Hazardous Materials</i> , 2021 , 403, 123952	12.8	8
40	Enhanced performances in catalytic oxidation of o-xylene over hierarchical macro-/mesoporous silica-supported palladium catalysts. <i>Frontiers of Environmental Science and Engineering</i> , 2016 , 10, 458-466	5.8	7
39	Physico-chemical characterization and source tracking of black carbon at a suburban site in Beijing. <i>Journal of Environmental Sciences</i> , 2015 , 33, 188-94	6.4	7
38	Hydrotalcite-Derived Cu _x Mg _{3-x} AlO Oxides for Catalytic Degradation of n-Butylamine with Low Concentration NO and Pollutant-Destruction Mechanism. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 9362-9371	3.9	7

37	Effective catalytic decomposition of nitrous oxide over highly active and stable bimetallic CoIn-mordenite zeolite. <i>Journal of Molecular Catalysis A</i> , 2014 , 395, 202-209		7
36	Preparation and investigation of PD/Ti-SBA-15 catalysts for catalytic oxidation of benzene. <i>Environmental Progress and Sustainable Energy</i> , 2010 , 29, 435-442	2.5	7
35	The epoxidation of allyl alcohol on Ti-complex/MCM-48 catalyst. <i>Microporous and Mesoporous Materials</i> , 2008 , 112, 133-137	5.3	7
34	A supported gold catalyst for the elimination of hydrogen from CO ₂ feed gas in the production of urea. <i>Reaction Kinetics and Catalysis Letters</i> , 1996 , 59, 295-300		7
33	Catalytic oxidation of o-chlorophenol over Co ₂ XAl (X = Co, Mg, Ca, Ni) hydrotalcite-derived mixed oxide catalysts. <i>Frontiers of Environmental Science and Engineering</i> , 2020 , 14, 1	5.8	6
32	Gaseous adsorption of hexamethyldisiloxane on carbons: Isotherms, isosteric heats and kinetics. <i>Chemosphere</i> , 2020 , 247, 125862	8.4	6
31	Effects of metal and acidic sites on the reaction by-products of butyl acetate oxidation over palladium-based catalysts. <i>Journal of Environmental Sciences</i> , 2014 , 26, 702-7	6.4	6
30	Catalytic Oxidation of Nitric Oxide to Nitrogen Dioxide on Ru-FAU. <i>Catalysis Letters</i> , 2009 , 131, 656-662	2.8	6
29	Heat-induced phase transitions from an aqueous solution to precipitates in a poly(sodium 4-styrenesulfonate)/tetradecyltrimethylammonium bromide system. <i>Chemistry - A European Journal</i> , 2007 , 13, 4782-5	4.8	6
28	Influence of the calcination temperature on the Au/FeO _x /Al ₂ O ₃ catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 1246-1251	3.5	6
27	Density functional theory study on the reaction of triazol-3-one with nitronium: direct nitration versus acidic group-induced nitration. <i>RSC Advances</i> , 2015 , 5, 25183-25191	3.7	5
26	Fe-Beta catalysts prepared by heating wet ion exchange and their catalytic performances on N ₂ O catalytic decomposition and reduction. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014 , 9, 159-166	1.3	5
25	Modeling and simulation of an improved ammonia-based desulfurization process for Claus tail gas treatment. <i>RSC Advances</i> , 2017 , 7, 23591-23599	3.7	4
24	Study on emissions of volatile organic compounds from a typical coking chemical plant in China. <i>Science of the Total Environment</i> , 2021 , 752, 141927	10.2	4
23	Selective catalytic oxidation of ammonia over LaMA11O19 (M = Fe, Cu, Co, and Mn) hexaaluminates catalysts at high temperatures in the Claus process. <i>Catalysis Science and Technology</i> , 2020 , 10, 1477-1491	5.5	3
22	China's increasingly positive and active stance on climate change. <i>Environmental Science & Technology</i> , 2011 , 45, 2525-6	10.3	3
21	The optimization of preparation, reaction conditions and synthesis gas production by redox cycle using lattice oxygen. <i>Studies in Surface Science and Catalysis</i> , 2007 , 391-396	1.8	3
20	Synthesis of nanosize mesoporous MCM-48 material. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1752-4	1.3	3

19	The positive effect of water on acetaldehyde oxidation depended on the reaction temperature and MnO ₂ structure. <i>Applied Catalysis B: Environmental</i> , 2021 , 303, 120886	21.8	3
18	Activated Carbon Fibers Prepared by One-Step Activation with CuCl ₂ for Highly Efficient Gas Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19793-19802	3.9	3
17	Unprecedented Nonphotomediated Hole (·) Oxidation System Constructed from Defective Carbon Nanotubes and Superoxides. <i>ACS Central Science</i> , 2021 , 7, 355-364	16.8	3
16	Defect enhanced CoMnNiO _x catalysts derived from spent ternary lithium-ion batteries for low-temperature propane oxidation. <i>Applied Catalysis B: Environmental</i> , 2022 , 309, 121231	21.8	3
15	Promoted and Controllable Self-Assembly of Hydrolyzed Siloxane and Triblock Copolymer under Organic Polyhydroxy Acids. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 6308-6314	3.9	2
14	Unraveling the adsorption and diffusion properties of hexamethyldisiloxane on zeolites by static gravimetric analysis. <i>Water Research</i> , 2021 , 197, 117097	12.5	2
13	Agar-stabilized sulfidated microscale zero-valent iron: Its stability and performance in chromate reduction. <i>Journal of Hazardous Materials</i> , 2021 , 417, 126019	12.8	2
12	Insight into the acidic group-induced nitration mechanism of 2-methyl-4,6-dihydroxypyrimidine (MDP) with nitronium. <i>RSC Advances</i> , 2016 , 6, 80145-80157	3.7	1
11	Effects of mesoporous silica particle size and pore structure on the performance of polymer-mesoporous silica mixed matrix membranes.. <i>RSC Advances</i> , 2021 , 11, 36577-36586	3.7	1
10	Hollow mesoporous silica materials with well-ordered cubic Ia3d mesostructured shell for toluene adsorption. <i>Journal of Porous Materials</i> , 2019 , 26, 59-68	2.4	1
9	High-Temperature Selective Oxidation of H ₂ S to Elemental Sulfur on a Fe ₃ C-Supported Cerium Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 12798-12810	3.9	1
8	Low-Temperature Direct Dehydrogenation of Propane over Binary Oxide Catalysts: Insights into Geometric Effects and Active Sites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 12755-12765	8.3	1
7	Promotional effect of Cu additive for the selective catalytic oxidation of n-butylamine over CeZrO _x catalyst. <i>Chinese Chemical Letters</i> , 2021 ,	8.1	1
6	Study of heterogeneous reaction of dimethyl sulfide on atmospheric-like particulate TiO ₂ . <i>Chemosphere</i> , 2021 , 280, 130771	8.4	1
5	Comparison of hydrolysis and oxidation reactions of carbonyl sulfide on particle matter. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2008 , 3, 509-513	1.3	0
4	Comparision of China's volatile organic compound pollution management: a computable general equilibrium approach. <i>Chinese Journal of Population Resources and Environment</i> , 2016 , 14, 298-308	2.1	0
3	High Temperature Adsorption of SO ₂ on Mixed Oxides Derived from CaAl Hydrotalcite-Like Compounds. <i>Processes</i> , 2021 , 9, 325	2.9	0
2	Effect of Cu-ZSM-5 catalysts with different CuO particle size on selective catalytic oxidation of N,N-Dimethylformamide. <i>Frontiers of Environmental Science and Engineering</i> , 2022 , 16, 1	5.8	0

- 1 Synthesis of TiO₂/ramie fiber composite and its photocatalytic effect on the degradation of a dye in wastewater. *Reaction Kinetics, Mechanisms and Catalysis*, **2013**, 110, 515-528 1.6