

Xing-Yi Wang

List of Publications by Year in descending order

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84
papers

5,555
citations

66343

42
h-index

79698

73
g-index

85
all docs

85
docs citations

85
times ranked

3884
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology effect of Ru/CeO ₂ catalysts for the catalytic combustion of chlorobenzene. Applied Catalysis B: Environmental, 2014, 158-159, 96-105.	20.2	355
2	Highly Active and Selective Hydrogenation of CO ₂ to Ethanol by Ordered Pd@Cu Nanoparticles. Journal of the American Chemical Society, 2017, 139, 6827-6830.	13.7	344
3	Catalytic combustion of 1,2-dichlorobenzene at low temperature over Mn-modified Co ₃ O ₄ catalysts. Applied Catalysis B: Environmental, 2015, 166-167, 393-405.	20.2	289
4	Low-temperature catalytic combustion of trichloroethylene over cerium oxide and catalyst deactivation. Applied Catalysis B: Environmental, 2008, 81, 192-202.	20.2	184
5	Effect of Ce and La on the structure and activity of MnO _x catalyst in catalytic combustion of chlorobenzene. Applied Catalysis B: Environmental, 2012, 111-112, 141-149.	20.2	176
6	Catalytic combustion of chlorobenzene over VO ₂ /CeO ₂ catalysts. Journal of Catalysis, 2015, 326, 54-68.	6.2	170
7	Low temperature catalytic combustion of 1,2-dichlorobenzene over CeO ₂ @TiO ₂ mixed oxide catalysts. Applied Catalysis B: Environmental, 2016, 181, 848-861.	20.2	165
8	Fe doped CeO ₂ nanosheets as Fenton-like heterogeneous catalysts for degradation of salicylic acid. Chemical Engineering Journal, 2018, 333, 226-239.	12.7	146
9	Sandwich-structured CeO ₂ @ZSM-5 hybrid composites for catalytic oxidation of 1, 2-dichloroethane: An integrated solution to coking and chlorine poisoning deactivation. Applied Catalysis B: Environmental, 2017, 203, 31-42.	20.2	139
10	Catalytic combustion of chlorobenzene over Ru-doped ceria catalysts. Applied Catalysis B: Environmental, 2012, 126, 64-75.	20.2	138
11	Phosphate-Functionalized CeO ₂ Nanosheets for Efficient Catalytic Oxidation of Dichloromethane. Environmental Science & Technology, 2018, 52, 13430-13437.	10.0	128
12	Catalysis oxidation of 1,2-dichloroethane and ethyl acetate over ceria nanocrystals with well-defined crystal planes. Applied Catalysis B: Environmental, 2012, 117-118, 360-368.	20.2	124
13	Comparative studies of P/CeO ₂ and Ru/CeO ₂ catalysts for catalytic combustion of dichloromethane: From effects of H ₂ O to distribution of chlorinated by-products. Applied Catalysis B: Environmental, 2019, 249, 9-18.	20.2	124
14	Low-temperature catalytic combustion of chlorobenzene over MnO _x @CeO ₂ mixed oxide catalysts. Catalysis Communications, 2008, 9, 2158-2162.	3.3	122
15	Catalytic combustion of chlorobenzene over Ru-doped ceria catalysts: Mechanism study. Applied Catalysis B: Environmental, 2013, 129, 580-588.	20.2	118
16	Role of Brønsted acid site during catalytic combustion of methane over PdO/ZSM-5: Dominant or negligible?. Journal of Catalysis, 2018, 357, 29-40.	6.2	115
17	Chlorinated volatile organic compound oxidation over SO ₄ ²⁻ /Fe ₂ O ₃ catalysts. Journal of Catalysis, 2018, 360, 277-289.	6.2	113
18	Catalytic combustion of chlorinated aromatics over WO _x /CeO ₂ catalysts at low temperature. Applied Catalysis B: Environmental, 2019, 248, 264-276.	20.2	112

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19	Fe doped CeO ₂ nanosheets for catalytic oxidation of 1,2-dichloroethane: Effect of preparation method. <i>Chemical Engineering Journal</i> , 2017, 307, 1037-1046.	12.7	107
20	Catalytic oxidation of chlorinated VOCs over Ru/Ti _x Sn _{1-x} catalysts. <i>Applied Catalysis B: Environmental</i> , 2020, 263, 118237.	20.2	107
21	HCl-Tolerant H _x PO ₄ /RuO _x â€“CeO ₂ Catalysts for Extremely Efficient Catalytic Elimination of Chlorinated VOCs. <i>Environmental Science & Technology</i> , 2021, 55, 4007-4016.	10.0	107
22	A new intumescent flameâ€“retardant: preparation, surface modification, and its application in polypropylene. <i>Polymers for Advanced Technologies</i> , 2008, 19, 1055-1061.	3.2	90
23	Low temperature catalytic combustion of chlorobenzene over Mnâ€“Ceâ€“O/ ³ -Al ₂ O ₃ mixed oxides catalyst. <i>Catalysis Today</i> , 2010, 158, 336-342.	4.4	90
24	The effect of TiO ₂ doping on catalytic performances of Ru/CeO ₂ catalysts during catalytic combustion of chlorobenzene. <i>Applied Catalysis B: Environmental</i> , 2013, 142-143, 222-233.	20.2	90
25	Catalytic total oxidation of 1,2-dichloroethane over VO _x /CeO ₂ catalysts: Further insights via isotopic tracer techniques. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 598-610.	20.2	87
26	Catalytic performance of Laâ€“Ceâ€“O mixed oxide for combustion of methane. <i>Catalysis Today</i> , 2010, 158, 348-353.	4.4	85
27	Effect of Ru on the activity of Co ₃ O ₄ catalysts for chlorinated aromatics oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 4797-4811.	4.1	83
28	Direct synthesis of Cerium(III)-incorporated SBA-15 mesoporous molecular sieves by two-step synthesis method. <i>Microporous and Mesoporous Materials</i> , 2007, 100, 268-275.	4.4	82
29	Removal of Cl adsorbed on Mnâ€“Ceâ€“La solid solution catalysts during CVOC combustion. <i>Journal of Colloid and Interface Science</i> , 2014, 426, 324-332.	9.4	78
30	The oxidation of chlorinated organic compounds over W-modified Pt/CeO ₂ catalysts. <i>Journal of Catalysis</i> , 2019, 380, 375-386.	6.2	71
31	Low-temperature catalytic destruction of chlorinated VOCs over cerium oxide. <i>Catalysis Communications</i> , 2007, 8, 1645-1649.	3.3	68
32	Catalytic total oxidation of 1,2-dichloroethane over highly dispersed vanadia supported on CeO ₂ nanobelts. <i>Applied Catalysis B: Environmental</i> , 2015, 168-169, 141-155.	20.2	66
33	Catalytic combustion of chlorobenzene on modified LaMnO ₃ catalysts. <i>Catalysis Communications</i> , 2014, 54, 114-117.	3.3	64
34	Sandwich-like PdO/CeO ₂ nanosheet@HZSM-5 membrane hybrid composite for methane combustion: self-redispersion, sintering-resistance and oxygen, water-tolerance. <i>Nanoscale</i> , 2016, 8, 9621-9628.	5.6	62
35	Template-free and non-hydrothermal synthesis of CeO ₂ nanosheets via a facile aqueous-phase precipitation route with catalytic oxidation properties. <i>CrystEngComm</i> , 2014, 16, 9817-9827.	2.6	60
36	Methane dehydroaromatization by Mo-supported MFI-type zeolite with coreâ€“shell structure. <i>Applied Catalysis A: General</i> , 2013, 453, 295-301.	4.3	55

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37	Role of acidity of catalysts on methane combustion over Pd/ZSM-5. <i>Catalysis Communications</i> , 2007, 8, 880-884.	3.3	52
38	1,2-Dichloroethane Deep Oxidation over Bifunctional Ru/Ce _x Al _y Catalysts. <i>ACS Omega</i> , 2018, 3, 8460-8470.	3.5	51
39	Effect of CeO ₂ preparation method and Cu loading on CuO/CeO ₂ catalysts for methane combustion. <i>Journal of Natural Gas Chemistry</i> , 2009, 18, 458-466.	1.8	49
40	Pt and Mo Co-Decorated MnO ₂ Nanorods with Superior Resistance to H ₂ O, Sintering, and HCl for Catalytic Oxidation of Chlorobenzene. <i>Environmental Science & Technology</i> , 2021, 55, 14204-14214.	10.0	48
41	Highly selective hydrogenation of phenol and derivatives over Pd catalysts supported on SiO ₂ and γ -Al ₂ O ₃ in aqueous media. <i>Catalysis Communications</i> , 2014, 57, 23-28.	3.3	45
42	Dichloromethane oxidation over Fe _x Zr _{1-x} oxide catalysts. <i>Applied Catalysis A: General</i> , 2018, 557, 108-118.	4.3	45
43	Amorphous and homogeneously Zr-doped MnO _x with enhanced acid and redox properties for catalytic oxidation of 1,2-Dichloroethane. <i>Chemical Engineering Journal</i> , 2022, 428, 131067.	12.7	45
44	Catalytic decomposition of CH ₂ Cl ₂ over supported Ru catalysts. <i>Catalysis Communications</i> , 2013, 37, 5-8.	3.3	44
45	Catalytic combustion of chlorinated VOCs over VO _x /TiO ₂ catalysts. <i>Catalysis Communications</i> , 2012, 18, 72-75.	3.3	39
46	Catalytic combustion of CVOCs over Cr Ti _{1-x} oxide catalysts. <i>Journal of Catalysis</i> , 2020, 391, 132-144.	6.2	35
47	Ethylene glycol assisted synthesis of hierarchical Fe-ZSM-5 nanorods assembled microsphere for adsorption Fenton degradation of chlorobenzene. <i>Journal of Hazardous Materials</i> , 2020, 385, 121581.	12.4	34
48	Phosphate-assisted synthesis of ultrathin and thermally stable alumina nanosheets as robust Pd support for catalytic combustion of propane. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119949.	20.2	32
49	Catalytic combustion of chlorobenzene over Mn ²⁺ /Ce/Al ₂ O ₃ catalyst promoted by Mg. <i>Catalysis Communications</i> , 2010, 11, 1022-1025.	3.3	29
50	Catalytic combustion of CVOCs over MoO _x /CeO ₂ catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 310, 121240.	20.2	28
51	Hydrodechlorination of chlorophenols at low temperature on a novel Pd catalyst. <i>Chemical Communications</i> , 2009, , 4438.	4.1	26
52	The effect of Ce on catalytic decomposition of chlorinated methane over RuO _x catalysts. <i>Applied Catalysis A: General</i> , 2014, 470, 442-450.	4.3	26
53	Catalytic oxidation of 1,2-dichloroethane over Al ₂ O ₃ -CeO ₂ catalysts: combined effects of acid and redox properties. <i>RSC Advances</i> , 2015, 5, 48916-48927.	3.6	26
54	The catalytic combustion of CH ₂ Cl ₂ over SO ₄ ²⁻ /Ti _x Sn _{1-x} modified with Ru. <i>Catalysis Science and Technology</i> , 2020, 10, 742-756.	4.1	26

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55	Dehydrochlorination of 1,2-dichloroethane over Ba-modified Al ₂ O ₃ catalysts. RSC Advances, 2016, 6, 52564-52574.	3.6	25
56	Effect of phosphoric acid on catalytic combustion of trichloroethylene over Pt/P-MCM-41. Applied Catalysis A: General, 2008, 340, 33-41.	4.3	23
57	Catalytic Combustion of Methane over High Copper-Loading ZSM-5 Catalysts. Journal of Natural Gas Chemistry, 2007, 16, 258-265.	1.8	22
58	Oxy-Anionic Doping: A New Strategy for Improving Selectivity of Ru/CeO ₂ with Synergetic Versatility and Thermal Stability for Catalytic Oxidation of Chlorinated Volatile Organic Compounds. Environmental Science & Technology, 2022, 56, 8854-8863.	10.0	21
59	Ultra-active Ru supported on CeO ₂ nanosheets for catalytic combustion of Propane: Experimental insights into interfacial active sites. Chemical Engineering Journal, 2022, 438, 135501.	12.7	20
60	Effect of water on the performance of Pd-ZSM-5 catalysts for the combustion of methane. Journal of Natural Gas Chemistry, 2008, 17, 87-92.	1.8	16
61	The effect of triethylamine on the hydrodechlorination of chlorophenols on Pd/C at low temperature. Catalysis Communications, 2009, 10, 2027-2030.	3.3	16
62	Catalytic oxidation of ethyl acetate on Ce-Mn-O catalysts modified by La. Rare Metals, 2021, 40, 547-554.	7.1	16
63	Facile synthesis of HZSM-5 with controlled crystal morphology and size as efficient catalysts for chlorinated hydrocarbons oxidation and xylene isomerization. Journal of Porous Materials, 2014, 21, 1041-1049.	2.6	15
64	Mechanical performance and flame retardancy of polypropylene composites containing zeolite and multiwalled carbon nanotubes. Journal of Applied Polymer Science, 2016, 133, .	2.6	15
65	A platelet-like CeO ₂ mesocrystal enclosed by {100} facets: synthesis and catalytic properties. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	14
66	Oxidative decomposition of chlorobenzene over iron titanate catalysts: The critical roles of oxygen vacancies and adsorption geometries. Applied Catalysis A: General, 2021, 617, 118118.	4.3	14
67	Low-temperature catalytic combustion of trichloroethylene over MnO-CeO ₂ mixed oxide catalysts. Journal of Rare Earths, 2023, 41, 523-530.	4.8	14
68	The application of highly soluble amine-terminated aromatic polyimides with pendent tert-butyl groups as a toughener for epoxy resin. Chinese Journal of Polymer Science (English Edition), 2015, 33, 1359-1372.	3.8	13
69	Catalytic oxidation of chlorinated aromatics over Fe-based oxide catalysts modified by Mn. Chemical Engineering Journal, 2022, 446, 136771.	12.7	13
70	Incorporation of lanthanum into SBA-15 and its catalytic activity in trichloroethylene combustion. Journal of Rare Earths, 2008, 26, 717-721.	4.8	11
71	Hydrodechlorination of chlorophenols at low temperature over highly defective Pd catalyst. Catalysis Communications, 2013, 41, 60-64.	3.3	11
72	Selective phenol hydrogenation under mild condition over Pd catalysts supported on Al ₂ O ₃ and SiO ₂ . Research on Chemical Intermediates, 2019, 45, 1249-1262.	2.7	10

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73	Low-Temperature Catalytic Combustion of Trichloroethylene over La, Ce, and Pt Catalysts Supported on MCM-41. Chinese Journal of Catalysis, 2006, 27, 468-470.	14.0	9
74	Pt-loaded P-MCM-41 as a novel bifunctional catalyst for catalytic combustion of trichloroethylene. Catalysis Communications, 2007, 8, 1583-1587.	3.3	9
75	CH ₂ Cl ₂ catalytic oxidation over Ce-Ti-Zr mixed oxide catalysts. Applied Catalysis A: General, 2022, 629, 118420.	4.3	9
76	Pd/Catalyzed Reductive Mono-N-alkylation of Nitrophenol Derivatives in One-pot Way. Chinese Journal of Chemistry, 2010, 28, 16-20.	4.9	8
77	Highly dispersive PdCoB catalysts for dechlorination of chlorophenols. Journal of Hazardous Materials, 2014, 274, 63-71.	12.4	8
78	Oxidative decomposition of dichloromethane over sulfated iron titanate catalysts: Catalytic performance and reaction mechanism. Applied Catalysis A: General, 2021, 616, 118094.	4.3	8
79	Phosphoric acid modified SBA-15 as a highly efficient heterogeneous catalyst for the synthesis of 4,4'-diamino-3,3'-dibutyl-diphenyl methane. Catalysis Communications, 2010, 11, 438-441.	3.3	5
80	Hydrogenation-dechlorination of 2-chloro-4,6-dinitroresorcinol over Pd/C catalysts. Research on Chemical Intermediates, 2018, 44, 6087-6104.	2.7	5
81	Soluble Polyimide-reinforced TGDDM and DGEBA Epoxy Composites. Chinese Journal of Polymer Science (English Edition), 2020, 38, 867-876.	3.8	5
82	Liquid phase hydrodechlorination of chlorinated aromatics at lower temperature on highly defective Pd sites. Research on Chemical Intermediates, 2019, 45, 1087-1104.	2.7	3
83	One-pot method to synthesize 4,6-bis(isopropylamino)resorcinol through hydrodechlorination and catalytically reductive mono-N-alkylation. Journal of Industrial and Engineering Chemistry, 2009, 15, 434-437.	5.8	2
84	One-Pot Method to Synthesize 4,6-Bis(isopropylamino)- benzene-1,3-diol by Catalytic Reductive Mono-N-alkylation of Amine Derivatives. Chinese Journal of Catalysis, 2008, 29, 878-880.	14.0	1