

# Xiaole Weng

## List of Publications by Year in descending order

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59  
papers

4,303  
citations

101543

36  
h-index

128289

60  
g-index

60  
all docs

60  
docs citations

60  
times ranked

3279  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous Hydrothermal Synthesis of Inorganic Nanoparticles: Applications and Future Directions. <i>Chemical Reviews</i> , 2017, 117, 11125-11238.	47.7	382
2	The role of cerium in the improved SO <sub>2</sub> tolerance for NO reduction with NH <sub>3</sub> over Mn-Ce/TiO <sub>2</sub> catalyst at low temperature. <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 582-588.	20.2	332
3	The enhanced performance of ceria with surface sulfation for selective catalytic reduction of NO by NH <sub>3</sub> . <i>Catalysis Communications</i> , 2010, 12, 310-313.	3.3	297
4	Catalytic Oxidation of Chlorobenzene over Mn <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> /HZSM-5 Catalysts: A Study with Practical Implications. <i>Environmental Science &amp; Technology</i> , 2017, 51, 8057-8066.	10.0	281
5	Mechanism study on catalytic oxidation of chlorobenzene over Mn <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> /H-ZSM5 catalysts under dry and humid conditions. <i>Applied Catalysis B: Environmental</i> , 2016, 198, 389-397.	20.2	169
6	Catalytic Oxidation of Chlorinated Organics over Lanthanide Perovskites: Effects of Phosphoric Acid Etching and Water Vapor on Chlorine Desorption Behavior. <i>Environmental Science &amp; Technology</i> , 2019, 53, 884-893.	10.0	154
7	Deactivation mechanism of Ce/TiO <sub>2</sub> selective catalytic reduction catalysts by the loading of sodium and calcium salts. <i>Catalysis Science and Technology</i> , 2013, 3, 715-722.	4.1	126
8	Synergistic Elimination of NO <sub>x</sub> and Chloroaromatics on a Commercial V <sub>2</sub> O <sub>5</sub> WO <sub>3</sub> /TiO <sub>2</sub> Catalyst: Byproduct Analyses and the SO <sub>2</sub> Effect. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12657-12667.	10.0	116
9	Structural modification of LaCoO <sub>3</sub> perovskite for oxidation reactions: The synergistic effect of Ca <sup>2+</sup> and Mg <sup>2+</sup> co-substitution on phase formation and catalytic performance. <i>Applied Catalysis B: Environmental</i> , 2015, 172-173, 18-26.	20.2	111
10	DRIFT studies on promotion mechanism of H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> in selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , 2016, 461, 9-14.	9.4	110
11	Alkali Potassium Induced HCl/CO <sub>2</sub> Selectivity Enhancement and Chlorination Reaction Inhibition for Catalytic Oxidation of Chloroaromatics. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6438-6447.	10.0	103
12	Active Oxygen Species in La <sub>n+1</sub> Ni <sub>n</sub> O <sub>3n+1</sub> Layered Perovskites for Catalytic Oxidation of Toluene and Methane. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3259-3266.	3.1	94
13	Mechanisms and reaction pathways for simultaneous oxidation of NO and SO <sub>2</sub> by ozone determined by in situ IR measurements. <i>Journal of Hazardous Materials</i> , 2014, 274, 376-383.	12.4	93
14	Catalyst performance and mechanism of catalytic combustion of dichloromethane (CH <sub>2</sub> Cl <sub>2</sub> ) over Ce doped TiO <sub>2</sub> . <i>Journal of Colloid and Interface Science</i> , 2016, 463, 233-241.	9.4	93
15	Efficient Elimination of Chlorinated Organics on a Phosphoric Acid Modified CeO <sub>2</sub> Catalyst: A Hydrolytic Destruction Route. <i>Environmental Science &amp; Technology</i> , 2019, 53, 12697-12705.	10.0	91
16	Ceria supported on sulfated zirconia as a superacid catalyst for selective catalytic reduction of NO with NH <sub>3</sub> . <i>Journal of Colloid and Interface Science</i> , 2013, 394, 515-521.	9.4	80
17	Lanthanide perovskite catalysts for oxidation of chloroaromatics: Secondary pollution and modifications. <i>Journal of Catalysis</i> , 2018, 366, 213-222.	6.2	80
18	Direct continuous hydrothermal synthesis of high surface area nanosized titania. <i>Journal of Alloys and Compounds</i> , 2009, 476, 451-456.	5.5	79

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19	Facile Approach for the Syntheses of Ultrafine TiO <sub>2</sub> Nanocrystallites with Defects and C Heterojunction for Photocatalytic Water Splitting. ACS Sustainable Chemistry and Engineering, 2016, 4, 4314-4320.	6.7	76
20	Structural effect and reaction mechanism of MnO <sub>2</sub> catalysts in the catalytic oxidation of chlorinated aromatics. Chinese Journal of Catalysis, 2019, 40, 638-646.	14.0	71
21	Development of a multi-active center catalyst in mediating the catalytic destruction of chloroaromatic pollutants: A combined experimental and theoretical study. Applied Catalysis B: Environmental, 2020, 272, 119015.	20.2	71
22	Synthesis and characterization of doped nano-sized ceria-zirconia solid solutions. Applied Catalysis B: Environmental, 2009, 90, 405-415.	20.2	64
23	Novel SCR catalyst with superior alkaline resistance performance: enhanced self-protection originated from modifying protonated titanate nanotubes. Journal of Materials Chemistry A, 2015, 3, 680-690.	10.3	63
24	Elimination of chloroaromatic congeners on a commercial V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> catalyst: The effect of heavy metal Pb. Journal of Hazardous Materials, 2020, 387, 121705.	12.4	62
25	Vacancy-defect semiconductor quantum dots induced an S-scheme charge transfer pathway in 0D/2D structures under visible-light irradiation. Applied Catalysis B: Environmental, 2022, 306, 121109.	20.2	60
26	Supercritical water syntheses of Ce/TiO <sub>2</sub> nano-catalysts with a strong metal-support interaction for selective catalytic reduction of NO with NH <sub>3</sub> . Applied Catalysis B: Environmental, 2014, 160-161, 684-691.	20.2	59
27	SO <sub>2</sub> Poisoning Structures and the Effects on Pure and Mn Doped CeO <sub>2</sub> : A First Principles Investigation. Journal of Physical Chemistry C, 2012, 116, 22930-22937.	3.1	58
28	A two-stage Ce/TiO <sub>2</sub> -Cu/CeO <sub>2</sub> catalyst with separated catalytic functions for deep catalytic combustion of CH <sub>2</sub> Cl <sub>2</sub> . Chemical Engineering Journal, 2016, 290, 147-153.	12.7	55
29	Enhanced alkali resistance of CeO <sub>2</sub> /SO <sub>4</sub> <sup>2-</sup> -ZrO <sub>2</sub> catalyst in selective catalytic reduction of NO <sub>x</sub> by ammonia. Catalysis Communications, 2014, 43, 223-226.	3.3	54
30	The Superior Performance of Sol-Gel Made Ce-O-P Catalyst for Selective Catalytic Reduction of NO with NH <sub>3</sub> . Journal of Physical Chemistry C, 2016, 120, 221-229.	3.1	54
31	Facile synthesis of highly active LaCoO <sub>3</sub> /MgO composite perovskite via simultaneous co-precipitation in supercritical water. Applied Catalysis B: Environmental, 2012, 126, 231-238.	20.2	53
32	V <sub>2</sub> O <sub>5</sub> -WO <sub>3</sub> /TiO <sub>2</sub> Catalyst for Efficient Synergistic Control of NO <sub>x</sub> and Chlorinated Organics: Insights into the Arsenic Effect. Environmental Science & Technology, 2021, 55, 9317-9325.	10.0	52
33	Unveiling the secondary pollution in the catalytic elimination of chlorinated organics: The formation of dioxins. Chinese Chemical Letters, 2020, 31, 1410-1414.	9.0	50
34	Influence of Ca doping on MnO <sub>x</sub> /TiO <sub>2</sub> catalysts for low-temperature selective catalytic reduction of NO <sub>x</sub> by NH <sub>3</sub> . Catalysis Communications, 2012, 18, 106-109.	3.3	45
35	Supercritical water syntheses of transition metal-doped CeO <sub>2</sub> nano-catalysts for selective catalytic reduction of NO by CO: An in situ diffuse reflectance Fourier transform infrared spectroscopy study. Chinese Journal of Catalysis, 2018, 39, 728-735.	14.0	41
36	Effects of morphology and structure of titanate supports on the performance of ceria in selective catalytic reduction of NO. Catalysis Communications, 2012, 26, 178-182.	3.3	40

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37	<i>In situ</i> valence modification of Pd/NiO nano-catalysts in supercritical water towards toluene oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 1858-1866.	4.1	38
38	Continuous syntheses of highly dispersed composite nanocatalysts via simultaneous co-precipitation in supercritical water. <i>Applied Catalysis B: Environmental</i> , 2011, 103, 453-461.	20.2	35
39	Cl Species Transformation on CeO <sub>2</sub> (111) Surface and Its Effects on CVOCs Catalytic Abatement: A First-Principles Investigation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 6758-6766.	3.1	35
40	An ultrafast approach for the syntheses of defective nanosized lanthanide perovskites for catalytic toluene oxidation. <i>Catalysis Science and Technology</i> , 2018, 8, 4364-4372.	4.1	30
41	The role of surface sulfation in mediating the acidity and oxidation ability of nickel modified ceria catalyst for the catalytic elimination of chlorinated organics. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 251-259.	9.4	30
42	Deactivation effects of Pb(II) and sulfur dioxide on a $\gamma$ -MnO <sub>2</sub> catalyst for combustion of chlorobenzene. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 96-104.	9.4	29
43	The effects of surface acidity on CO <sub>2</sub> adsorption over amine functionalized protonated titanate nanotubes. <i>RSC Advances</i> , 2013, 3, 18803.	3.6	28
44	Rapid syntheses of ultrafine LaMnO <sub>3</sub> nano-crystallites with superior activity for catalytic oxidation of toluene. <i>Catalysis Communications</i> , 2016, 84, 167-170.	3.3	27
45	Effective Way to Control the Performance of a Ceria-Based DeNO <sub>x</sub> Catalyst with Improved Alkali Resistance: Acid-Base Adjusting. <i>Journal of Physical Chemistry C</i> , 2015, 119, 15077-15084.	3.1	24
46	Unveiling the importance of reactant mass transfer in environmental catalysis: Taking catalytic chlorobenzene oxidation as an example. <i>Chinese Chemical Letters</i> , 2021, 32, 1206-1209.	9.0	24
47	Thermocatalytic syntheses of highly defective hybrid nano-catalysts for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23766-23775.	10.3	21
48	CePO <sub>4</sub> Catalyst for Elemental Mercury Removal in Simulated Coal-Fired Flue Gas. <i>Energy &amp; Fuels</i> , 2015, 29, 3359-3365.	5.1	20
49	Effect of Cr doping in promoting the catalytic oxidation of dichloromethane (CH <sub>2</sub> Cl <sub>2</sub> ) over Cr-Co@Z catalysts. <i>Journal of Hazardous Materials</i> , 2021, 413, 125327.	12.4	19
50	Regeneration mechanism of a deactivated zeolite-supported catalyst for the combustion of chlorinated volatile organic compounds. <i>Catalysis Science and Technology</i> , 2021, 11, 923-933.	4.1	19
51	Selective Ru Adsorption on SnO <sub>2</sub> /CeO <sub>2</sub> Mixed Oxides for Efficient Destruction of Multicomponent Volatile Organic Compounds: From Laboratory to Practical Possibility. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9762-9772.	10.0	15
52	Continuous hydrothermal syntheses of highly active composite nanocatalysts. <i>Green Chemistry</i> , 2011, 13, 850.	9.0	14
53	Enhanced CO <sub>2</sub> adsorptive performance of PEI/SBA-15 adsorbent using phosphate ester based surfactants as additives. <i>Journal of Environmental Sciences</i> , 2015, 38, 1-7.	6.1	14
54	Continuous hydrothermal flow syntheses of transition metal oxide doped Ce TiO <sub>2</sub> nanopowders for catalytic oxidation of toluene. <i>Catalysis Today</i> , 2011, 175, 386-392.	4.4	13

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55	Organic-free synthesis and ortho-reaction of monodisperse Ni incorporated CeO <sub>2</sub> nanocatalysts. <i>Journal of Materials Chemistry A</i> , 2018, 6, 866-870.	10.3	12
56	Synergistic Elimination of NO <sub>x</sub> and Chlorinated Organics over VO <sub>x</sub> /TiO <sub>2</sub> Catalysts: A Combined Experimental and DFT Study for Exploring Vanadate Domain Effect. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12862-12870.	10.0	11
57	Mercury Re-emission Behaviors in Magnesium-Based Wet Flue Gas Desulfurization Process: The Effects of Oxidation Inhibitors. <i>Energy &amp; Fuels</i> , 2015, 29, 2610-2615.	5.1	8
58	Supercritical water as a feasible reaction environment for the syntheses of hybrid nanocrystallites with strong metal-support interaction. <i>Catalysis Science and Technology</i> , 2016, 6, 2901-2904.	4.1	8
59	Tailoring the simultaneous abatement of methanol and NO <sub>x</sub> on Sb <sup>+</sup> Ce <sup>+</sup> Zr catalysts via copper modification. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	3