Huanzhen Chang

List of Publications by Year
in descending order

63 papers	5,339 citations	81900 39 h-index	114465 63 g-index
63 all docs	63 docs citations	63 times ranked	3530 citing authors

#	Article	IF	Citations
1	Low-temperature selective catalytic reduction of NOx with NH3 over metal oxide and zeolite catalystsâ€"A review. Catalysis Today, 2011, 175, 147-156.	4.4	811
2	Improvement of Activity and SO₂ Tolerance of Sn-Modified MnO_{<i>x</i>}â€"CeO₂ Catalysts for NH₃-SCR at Low Temperatures. Environmental Science & Technology, 2013, 47, 5294-5301.	10.0	378
3	Novel effect of SO2 on the SCR reaction over CeO2: Mechanism and significance. Applied Catalysis B: Environmental, 2013, 136-137, 19-28.	20.2	312
4	New Insight into SO₂ Poisoning and Regeneration of CeO₂â€"WO₃/TiO₂ and V₂O₅â€"WO₃/TiO₂ Catalysts for Low-Temperature NH₃â€"SCR. Environmental Science & Technology, 2018, 52, 7064-7071.	10.0	236
5	Feâ€"Ti spinel for the selective catalytic reduction of NO with NH3: Mechanism and structureâ€"activity relationship. Applied Catalysis B: Environmental, 2012, 117-118, 73-80.	20.2	178
6	Dispersion of tungsten oxide on SCR performance of V2O5WO3/TiO2: Acidity, surface species and catalytic activity. Chemical Engineering Journal, 2013, 225, 520-527.	12.7	177
7	Effect of Sn on MnO â€"CeO2 catalyst for SCR of NO by ammonia: Enhancement of activity and remarkable resistance to SO2. Catalysis Communications, 2012, 27, 54-57.	3.3	155
8	Mechanism of arsenic poisoning on SCR catalyst of CeW/Ti and its novel efficient regeneration method with hydrogen. Applied Catalysis B: Environmental, 2016, 184, 246-257.	20.2	149
9	CeO2â€"WO3 Mixed Oxides for the Selective Catalytic Reduction of NO x by NH3 Over a Wide Temperature Range. Catalysis Letters, 2011, 141, 1859-1864.	2.6	132
10	Improvement of the Activity of Î³-Fe₂O₃ for the Selective Catalytic Reduction of NO with NH₃ at High Temperatures: NO Reduction versus NH₃ Oxidization. Industrial & Engineering Chemistry Research, 2013, 52, 5601-5610.	3.7	118
11	Surface Tuning of La_{0.5}Sr_{0.5}CoO₃ Perovskite Catalysts by Acetic Acid for NO_{<i>x</i>} Storage and Reduction. Environmental Science & Technology, 2016, 50, 6442-6448.	10.0	108
12	Methane reforming to syngas over LaNixFe1â^'xO3 (0â‰¤xâ‰¤1) mixed-oxide perovskites in the presence of CO2 and O2. Journal of Industrial and Engineering Chemistry, 2012, 18, 2103-2114.	5.8	101
13	Comparison on the Performance of Î±-Fe2O3 and Î³-Fe2O3 for Selective Catalytic Reduction of Nitrogen Oxides with Ammonia. Catalysis Letters, 2013, 143, 697-704.	2.6	101
14	Low temperature complete combustion of methane over cobalt chromium oxides catalysts. Catalysis Today, 2013, 201, 12-18.	4.4	100
15	Chemical poison and regeneration of SCR catalysts for NO x removal from stationary sources. Frontiers of Environmental Science and Engineering, 2016, 10, 413-427.	6.0	100
16	Diclofenac degradation in water by FeCeO x catalyzed H 2 O 2 : Influencing factors, mechanism and pathways. Journal of Hazardous Materials, 2017, 334, 150-159.	12.4	98
17	Excellent Activity and Selectivity of One-Pot Synthesized Cuâ€"SSZ-13 Catalyst in the Selective Catalytic Oxidation of Ammonia to Nitrogen. Environmental Science & Technology, 2018, 52, 4802-4808.	10.0	95
18	Comparison of preparation methods for ceria catalyst and the effect of surface and bulk sulfates on its activity toward NH3-SCR. Journal of Hazardous Materials, 2013, 262, 782-788.	12.4	90

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19	Substitution of WO₃in V₂O₅/WO₃â€“TiO₂by Fe₂O₃for selective catalytic reduction of NO with NH3. Catalysis Science and Technology, 2013, 3, 161-168.	4.1	90
20	Ge, Mn-doped CeO2â€“WO3 catalysts for NH3â€“SCR of NOx: Effects of SO2 and H2 regeneration. Catalysis Today, 2013, 201, 139-144.	4.4	89
21	Heterogeneous activation of persulfate by Co3O4-CeO2 catalyst for diclofenac removal. Journal of Environmental Management, 2019, 234, 265-272.	7.8	88
22	Reaction Pathway Investigation on the Selective Catalytic Reduction of NO with NH₃ over Cu/SSZ-13 at Low Temperatures. Environmental Science & Technology, 2015, 49, 467-473.	10.0	87
23	Different exposed facets VO /CeO2 catalysts for the selective catalytic reduction of NO with NH3. Chemical Engineering Journal, 2018, 349, 184-191.	12.7	86
24	Mechanism of Selective Catalytic Reduction of NOx with NH3 over CeO2-WO3 Catalysts. Chinese Journal of Catalysis, 2011, 32, 836-841.	14.0	82
25	Design Strategies for CeO₂â€“MoO₃ Catalysts for DeNO_{<i>x</i>} and Hg⁰ Oxidation in the Presence of HCl: The Significance of the Surface Acidâ€“Base Properties. Environmental Science & Technology, 2015, 49, 12388-12394.	10.0	81
26	Identification of active sites and reaction mechanism on low-temperature SCR activity over Cu-SSZ-13 catalysts prepared by different methods. Catalysis Science and Technology, 2016, 6, 6294-6304.	4.1	81
27	Design Strategies for P-Containing Fuels Adaptable CeO₂â€“MoO₃ Catalysts for DeNO_{<i>x</i>}: Significance of Phosphorus Resistance and N₂ Selectivity. Environmental Science & Technology, 2013, 47, 11692-11699.	10.0	77
28	Novel Methods for Assessing the SO₂ Poisoning Effect and Thermal Regeneration Possibility of MO_{<i>x</i>}â€“WO₃/TiO₂ (M = Fe, Mn, Cu, and V) Catalysts for NH₃-SCR. Environmental Science & Technology, 2020, 54, 12612-12620.	10.0	69
29	Structural effects of iron spinel oxides doped with Mn, Co, Ni and Zn on selective catalytic reduction of NO with NH3. Journal of Molecular Catalysis A, 2013, 376, 13-21.	4.8	68
30	Characterization of CeO2â€“WO3 catalysts prepared by different methods for selective catalytic reduction of NO with NH3. Catalysis Communications, 2013, 40, 145-148.	3.3	61
31	Enhancement of N2O decomposition performance by N2O pretreatment over Ce-Co-O catalyst. Chemical Engineering Journal, 2018, 347, 184-192.	12.7	61
32	A novel mechanism for poisoning of metal oxide SCR catalysts: baseâ€“acid explanation correlated with redox properties. Chemical Communications, 2014, 50, 10031-10034.	4.1	59
33	Structural requirements of manganese oxides for methane oxidation: XAS spectroscopy and transition-state studies. Applied Catalysis B: Environmental, 2018, 229, 52-62.	20.2	57
34	Dextrose-aided hydrothermal preparation with large surface area on 1D single-crystalline perovskite La0.5Sr0.5CoO3 nanowires without template: Highly catalytic activity for methane combustion. Journal of Molecular Catalysis A, 2013, 378, 299-306.	4.8	56
35	A novel magnetic Feâ€“Tiâ€“V spinel catalyst for the selective catalytic reduction of NO with NH3 in a broad temperature range. Catalysis Science and Technology, 2012, 2, 915.	4.1	53
36	Effects of noble metals doped on mesoporous <scp>LaAlNi</scp> mixed oxide catalyst and identification of carbon deposit for reforming <scp>CH₄</scp> with <scp>CO₂</scp>. Journal of Chemical Technology and Biotechnology, 2014, 89, 372-381.	3.2	51

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37	Relations between iron sites and performance of Fe/HBEA catalysts prepared by two different methods for NH3-SCR. Chemical Engineering Journal, 2012, 209, 652-660.	12.7	46
38	Low-temperature selective catalytic reduction of N2O by CO over Fe-ZSM-5 catalysts in the presence of O2. Journal of Hazardous Materials, 2020, 383, 121117.	12.4	46
39	The promoting effects of amorphous CePO 4 species on phosphorus-doped CeO 2 /TiO 2 catalysts for selective catalytic reduction of NO x by NH 3. Molecular Catalysis, 2018, 453, 47-54.	2.0	41
40	Fe₂O₃@SiTi coreâ€“shell catalyst for the selective catalytic reduction of NO_x with NH₃: activity improvement and HCl tolerance. Catalysis Science and Technology, 2018, 8, 3313-3320.	4.1	36
41	The effect of cations (NH4+, Na+, K+, and Ca2+) on chemical deactivation of commercial SCR catalyst by bromides. Chinese Journal of Catalysis, 2018, 39, 710-717.	14.0	34
42	Estimation of abatement potentials and costs of air pollution emissions in China. Journal of Environmental Management, 2020, 260, 110069.	7.8	33
43	Novel Fe-Ce-O mixed metal oxides catalyst prepared by hydrothermal method for Hg0 oxidation in the presence of NH3. Catalysis Communications, 2017, 100, 210-213.	3.3	29
44	Effect of Ceria Precursor on the Physicochemical and Catalytic Properties of Mnâ€“W/CeO₂ Nanocatalysts for NH₃ SCR at Low Temperature. Industrial & Engineering Chemistry Research, 2017, 56, 14980-14994.	3.7	29
45	The outstanding performance of LDH-derived mixed oxide Mn/CoAlO_x for Hg⁰ oxidation. Catalysis Science and Technology, 2015, 5, 3536-3544.	4.1	27
46	The poisoning effects of phosphorus on CeO2-MoO3/TiO2 DeNO catalysts: NH3-SCR activity and the formation of N2O. Molecular Catalysis, 2017, 439, 15-24.	2.0	27
47	Improved Activity and H₂O Resistance of Cu-Modified MnO₂ Catalysts for NO Oxidation. Industrial & Engineering Chemistry Research, 2018, 57, 920-926.	3.7	26
48	NiFe(C2O4)x as a heterogeneous Fenton catalyst for removal of methyl orange. Journal of Environmental Management, 2017, 192, 150-155.	7.8	25
49	Electronic metal-support interactions in Pt/FeO nanospheres for CO oxidation. Catalysis Today, 2020, 355, 539-546.	4.4	23
50	Promotional Effect of Preparation Methods on Catalytic Reduction of NO by CO over CoCeO_{<i>x</i>} Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 34-41.	3.7	22
51	Catalytic oxidation of CO over Pt/Fe3O4 catalysts: Tuning O2 activation and CO adsorption. Frontiers of Environmental Science and Engineering, 2020, 14, 1.	6.0	21
52	Novel W-modified SnMnCeO catalyst for the selective catalytic reduction of NO with NH3. Catalysis Communications, 2017, 100, 117-120.	3.3	19
53	Simultaneous Selective Catalytic Reduction of NO and N₂O by NH₃ over Fe-Zeolite Catalysts. Industrial & Engineering Chemistry Research, 2020, 59, 19500-19509.	3.7	17
54	Effect of Fe precursors on the catalytic activity of Fe/SAPO-34 catalysts for N2O decomposition. Catalysis Communications, 2019, 128, 105706.	3.3	16

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55	Chemical deactivation of Selective Catalytic Reduction catalyst: Investigating the influence and mechanism of SeO2 poisoning. Fuel, 2020, 269, 117435.	6.4	16
56	Cu/SAPO-34 prepared by a facile ball milling method for enhanced catalytic performance in the selective catalytic reduction of NO_x with NH₃. Physical Chemistry Chemical Physics, 2019, 21, 22113-22120.	2.8	15
57	Design strategies of surface basicity for NO oxidation over a novel Snâ€“Coâ€“O catalyst in the presence of H2O. Catalysis Science and Technology, 2017, 7, 2057-2064.	4.1	14
58	Improvement of NH3 resistance over CuO/TiO2 catalysts for elemental mercury oxidation in a wide temperature range. Catalysis Today, 2021, 376, 276-284.	4.4	12
59	Preparation of a magnetic N-Fe/AC catalyst for aqueous pharmaceutical treatment in heterogeneous sonication system. Journal of Environmental Management, 2017, 187, 201-211.	7.8	11
60	Selective Catalytic Reduction of N2O by CO over Fe-Beta Zeolites Catalysts: Influence of Iron Species Distribution. Catalysis Surveys From Asia, 2021, 25, 58-67.	2.6	8
61	Lean NO â€“SnO2â€“CeO2 catalyst at low temperatures. Catalysis Today, 2015, 258, 556-563.	4.4	6
62	Interaction between Nickel Oxide and Support Promotes Selective Catalytic Reduction of NO_{<i>x</i>} with C₃H₆. Chemistry - an Asian Journal, 2022, 17, .	3.3	3
63	Flower-like Co3O4 Catalysts for Efficient Catalytic Oxidation of Multi-Pollutants from Diesel Exhaust. Catalysts, 2022, 12, 527.	3.5	2