

Improved activity and significant SO₂ tolerance of samarium-based catalysts for NO selective catalytic reduction with NH₃

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Step-wise transitions of electrons between valence and conduction bands: a tri-doped TiO ₂ approach. <i>Materials Research Express</i> , 2019, 6, 105515.	0.8	0
2	Selective Catalytic Reduction of NO _x with NH ₃ by Using Novel Catalysts: State of the Art and Future Prospects. <i>Chemical Reviews</i> , 2019, 119, 10916-10976.	23.0	1,003
3	Improvement in alkali metal resistance of commercial V ₂ O ₅ –WO ₃ /TiO ₂ SCR catalysts modified by Ce and Cu. <i>Journal of Materials Science</i> , 2019, 54, 14707-14719.	1.7	32
4	Research progress, challenges and perspectives on the sulfur and water resistance of catalysts for low temperature selective catalytic reduction of NO _x by NH ₃ . <i>Applied Catalysis A: General</i> , 2019, 588, 117207.	2.2	85
5	MnO _x –CeO ₂ @TiO ₂ core–shell composites for low temperature SCR of NO _x . <i>New Journal of Chemistry</i> , 2019, 43, 15161-15168.	1.4	25
6	Surface acidity enhancement of CeO ₂ catalysts via modification with a heteropoly acid for the selective catalytic reduction of NO with ammonia. <i>Catalysis Science and Technology</i> , 2019, 9, 5774-5785.	2.1	33
7	Insights into the highly efficient Co modified MnSm/Ti catalyst for selective catalytic reduction of NO with NH ₃ at low temperature. <i>Fuel</i> , 2019, 255, 115798.	3.4	38
8	Doping effect of Sm on the TiO ₂ /CeSmO _x catalyst in the NH ₃ -SCR reaction: structure–activity relationship, reaction mechanism and SO ₂ tolerance. <i>Catalysis Science and Technology</i> , 2019, 9, 3554-3567.	2.1	46
9	A comprehensive study on sulfur tolerance of niobia modified CeO ₂ /WO ₃ -TiO ₂ catalyst for low-temperature NH ₃ -SCR. <i>Applied Catalysis A: General</i> , 2019, 580, 121-130.	2.2	40
10	Effect of W on the acidity and redox performance of the Cu _{0.02} Fe _{0.2} W TiO _x (x=0.01, 0.02, 0.03) catalysts for NH ₃ -SCR of NO. <i>Applied Catalysis B: Environmental</i> , 2019, 248, 226-238.	10.8	132
11	A novel Cr/WO ₃ -ZrO ₂ catalyst for the selective catalytic reduction of NO _x with NH ₃ . <i>Catalysis Communications</i> , 2019, 125, 77-81.	1.6	15
12	Promoting effects of acid enhancing on N ₂ selectivity for selectivity catalytic oxidation of NH ₃ over RuO ₂ /TiO ₂ : The mechanism study. <i>Applied Surface Science</i> , 2020, 500, 144044.	3.1	53
13	Understanding the deposition and reaction mechanism of ammonium bisulfate on a vanadia SCR catalyst: A combined DFT and experimental study. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118168.	10.8	73
14	Enhanced low-temperature NH ₃ -SCR performance of CeTiO catalyst via surface Mo modification. <i>Chinese Journal of Catalysis</i> , 2020, 41, 364-373.	6.9	44
15	The effect of non-selective oxidation on the Mn ₂ Co ₁ O _x catalysts for NH ₃ -SCR: Positive and non-positive. <i>Chemical Engineering Journal</i> , 2020, 385, 123797.	6.6	52
16	Excellent low-temperature NH ₃ -SCR NO removal performance and enhanced H ₂ O resistance by Ce addition over the Cu _{0.02} Fe _{0.2} Ce _y Ti _{1-y} O _x (y= 0.1, 0.2, 0.3) catalysts. <i>Chemosphere</i> , 2020, 243, 125309.	4.2	53
17	Highly efficient WO ₃ -FeO catalysts synthesized using a novel solvent-free method for NH ₃ -SCR. <i>Journal of Hazardous Materials</i> , 2020, 388, 121812.	6.5	46
18	Investigation of Sulfated Iron-Based Catalysts with Different Sulfate Position for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Catalysts</i> , 2020, 10, 1035.	1.6	14

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19	Surface fibrillation of <i>para</i> -aramid nonwoven as a multi-functional air filter with ultralow pressure drop. <i>Journal of Materials Chemistry A</i> , 2020, 8, 22269-22279.	5.2	15
20	MOF-74-M (M = Mn, Co, Ni, Zn, MnCo, MnNi, and MnZn) for Low-Temperature NH ₃ -SCR and In Situ DRIFTS Study Reaction Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48476-48485.	4.0	112
21	Improved Activity and SO ₂ Resistance by Sm-Modulated Redox of MnCeSmTiO _x Mesoporous Amorphous Oxides for Low-Temperature NH ₃ -SCR of NO. <i>ACS Catalysis</i> , 2020, 10, 9034-9045.	5.5	182
22	Design of Prussian blue analogue-derived double-cone structure Ce-Fe catalysts and their enhanced performance for the selective catalytic reduction of NO _x with NH ₃ . <i>New Journal of Chemistry</i> , 2020, 44, 21244-21254.	1.4	6
23	Rationally Tailored Redox Properties of a Mesoporous Mn-Fe Spinel Nanostructure for Boosting Low-Temperature Selective Catalytic Reduction of NO _x with NH ₃ . <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17727-17739.	3.2	52
24	Alkali-Resistant NO _x Reduction over SCR Catalysts via Boosting NH ₃ Adsorption Rates by In Situ Constructing the Sacrificed Sites. <i>Environmental Science & Technology</i> , 2020, 54, 13314-13321.	4.6	70
25	Roles of Oxygen Vacancies in the Bulk and Surface of CeO ₂ for Toluene Catalytic Combustion. <i>Environmental Science & Technology</i> , 2020, 54, 12684-12692.	4.6	231
26	Promotional mechanism of activity <i>via</i> three-dimensional ordered macroporous Cu-doped Ce-Fe mixed oxides for the CO-SCR reaction. <i>Environmental Science: Nano</i> , 2020, 7, 3136-3154.	2.2	27
27	Investigating multi-functional traits of metal-substituted vanadate catalysts in expediting NO _x reduction and poison degradation at low temperatures. <i>Journal of Hazardous Materials</i> , 2020, 397, 122671.	6.5	26
28	Effect of SiO ₂ addition on NH ₄ HSO ₄ decomposition and SO ₂ poisoning over V ₂ O ₅ -MoO ₃ /TiO ₂ -CeO ₂ catalyst. <i>Journal of Environmental Sciences</i> , 2020, 91, 279-291.	3.2	18
29	In situ IR comparative study on N ₂ O formation pathways over different valence states manganese oxides catalysts during NH ₃ -SCR of NO. <i>Chemical Engineering Journal</i> , 2020, 397, 125446.	6.6	131
30	Al ₂ O ₃ -modified CuO-CeO ₂ catalyst for simultaneous removal of NO and toluene at wide temperature range. <i>Chemical Engineering Journal</i> , 2020, 397, 125419.	6.6	82
31	Promoting effect of Cu-doping on catalytic activity and SO ₂ resistance of porous CeO ₂ nanorods for H ₂ S selective oxidation. <i>Journal of Catalysis</i> , 2020, 389, 382-399.	3.1	59
32	Recent advances in layered double hydroxides (LDHs) derived catalysts for selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Hazardous Materials</i> , 2020, 400, 123260.	6.5	53
33	A review on application of cerium-based oxides in gaseous pollutant purification. <i>Separation and Purification Technology</i> , 2020, 250, 117181.	3.9	79
34	Enhancement of photocatalytic NO removal activity of g-C ₃ N ₄ by modification with illite particles. <i>Environmental Science: Nano</i> , 2020, 7, 1990-1998.	2.2	23
35	Low temperature high activity of M (M = Ce, Fe, Co, Ni) doped M-Mn/TiO ₂ catalysts for NH ₃ -SCR and in situ DRIFTS for investigating the reaction mechanism. <i>Applied Surface Science</i> , 2020, 515, 146014.	3.1	143
36	Construction of CoS/CeO ₂ heterostructure nanocages with enhanced photocatalytic performance under visible light. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6136-6148.	1.9	14

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38	Role of acid gases in HgO removal from flue gas over a novel cobalt-containing biochar prepared from harvested cobalt-enriched phytoremediation plant. Fuel Processing Technology, 2020, 207, 106478.	3.7	27
39	Severe deactivation and artificial enrichment of thallium on commercial SCR catalysts installed in cement kiln. Applied Catalysis B: Environmental, 2020, 277, 119194.	10.8	20
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43	The poisoning mechanism of gaseous HCl on low-temperature SCR catalysts: MnO ~ CeO ₂ as an example. Applied Catalysis B: Environmental, 2020, 267, 118668.	10.8	82
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51	Environmental-friendly production of FeNbTi catalyst with significant enhancement in SCR activity and SO ₂ resistance for NO _x removal. Fuel, 2021, 285, 119133.	3.4	32
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92	Mn and Fe oxides co-effect on nanopolyhedron CeO ₂ catalyst for NH ₃ -SCR of NO. Journal of the Energy Institute, 2021, 99, 97-104.	2.7	55
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110	Selective catalytic reductive removal of NO_x with decreased interference from SO_2 and H_2O by use of Sm-modified $Sm_xCo_{0.05-x}Ce_{0.05}Ti_{0.9}O_y$ catalysts. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 9-21.	5.0	12
111	Catalytic performance over Mn-Ce catalysts for NH_3 -SCR of NO at low temperature: Different zeolite supports. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107167.	3.3	48
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113	One-pot synthesis of $Cr^{1\pm}Mn^{12}CeTiO_x$ mixed oxides as NH_3 -SCR catalysts with enhanced low-temperature catalytic activity and sulfur resistance. <i>Chemical Engineering Science</i> , 2022, 251, 117450.	1.9	19
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116	Enhanced SO_2 and H_2O resistance of $MnTiSnO_y$ composite oxide for NH_3 -SCR through Sm modification. <i>Applied Surface Science</i> , 2022, 583, 152478.	3.1	24
117	Promoting effect of Co-doped CeO_2 nanorods activity and SO_2 resistance for Hg0 removal. <i>Fuel</i> , 2022, 317, 123320.	3.4	26
118	Sulfur-resistance iron catalyst in sulfur-containing VOCs abatement modulated through H_2 reduction. <i>Applied Surface Science</i> , 2022, 584, 152631.	3.1	5
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121	Ceria-tungsten-tin oxide catalysts with superior regeneration capacity after sulfur poisoning for NH_3 -SCR process. <i>Catalysis Science and Technology</i> , 2022, 12, 2471-2481.	2.1	10
122	Insights into Samarium Doping Effects on Catalytic Activity and SO_2 Tolerance of $MnFeO_x$ Catalyst for Low-Temperature NH_3 -Scr Reaction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
123	Amorphous FeO_x - $Mn_{0.1}O_y$ Catalyst with Rich Oxygen Vacancies for Ammonia Selective Catalytic Reduction of Nitrogen Oxide at Low Temperatures. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
124	Like Cures like: Detoxification Effect between Alkali Metals and Sulfur over the V_2O_5/TiO_2 deNO _x Catalyst. <i>Environmental Science & Technology</i> , 2022, 56, 3739-3747.	4.6	38
125	Selective catalytic reduction of NO by NH_3 over $V_2O_5-WO_3$ supported by titanium isopropoxide (TTIP)-treated TiO_2 . <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 422-430.	2.9	6
126	$MnFe@CeO_x$ Core-Shell Nanocages for the Selective Catalytic Reduction of NO with NH_3 at Low Temperature. <i>ACS Applied Nano Materials</i> , 2022, 5, 3619-3631.	2.4	20

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128	Effect of Transition-Metal Oxide M (M = Co, Fe, and Mn) Modification on the Performance and Structure of Porous CuZrCe Catalysts for Simultaneous Removal of NO and Toluene at Low-Medium Temperatures. Energy & Fuels, 2022, 36, 4439-4455.	2.5	21
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