

Selective Catalytic Reduction of NO_x Novel Catalysts: State of the Art and Future Prospects

Chemical Reviews

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Citation Report

#	ARTICLE	IF	CITATIONS
1	<i>In situ</i> decorated MOF-derived Mn-Fe oxides on Fe mesh as novel monolithic catalysts for NO _x reduction. <i>New Journal of Chemistry</i> , 2020, 44, 2357-2366.	1.4	36
2	Promoting effects of water on the NH ₃ -SCR reaction over Cu-SAPO-34 catalysts: transient and permanent influences on Cu species. <i>Dalton Transactions</i> , 2020, 49, 764-773.	1.6	15
3	Tuning composition on B sites of LaM _{0.5} Mn _{0.5} O ₃ (M = Cu, Co, Fe, Ni, Cr) perovskite catalysts in NO _x efficient reduction. <i>Applied Surface Science</i> , 2020, 508, 145158.	3.1	27
4	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
5	Density functional theory (DFT) studies of vanadium-titanium based selective catalytic reduction (SCR) catalysts. <i>Journal of Environmental Sciences</i> , 2020, 90, 119-137.	3.2	31
6	Facile Fabrication of Ce/Modified Multi-Channel TiO ₂ Nanotubes and Their Enhanced Selective Catalytic Reduction Performance. <i>Chemistry - an Asian Journal</i> , 2020, 15, 371-379.	1.7	4
7	Hierarchical three-dimensionally ordered macroporous Fe-V binary metal oxide catalyst for low temperature selective catalytic reduction of NO _x from marine diesel engine exhaust. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118455.	10.8	44
8	Selective Catalytic Reduction of NO by NH ₃ Using a Combination of Non-Thermal Plasma and Mn-Cu/ZSM5 Catalyst. <i>Catalysts</i> , 2020, 10, 1044.	1.6	7
9	SO ₂ -Tolerant NO _x Reduction by Marvelously Suppressing SO ₂ Adsorption over Fe _{1-x} Ce _x VO ₄ Catalysts. <i>Environmental Science & Technology</i> , 2020, 54, 14066-14075.	4.6	76
10	Promotional effects of modified TiO ₂ - and carbon-supported V ₂ O ₅ - and MnO _x -based catalysts for the selective catalytic reduction of NO _x : a review. <i>Catalysis Science and Technology</i> , 2020, 10, 7795-7813.	2.1	23
11	Cu/SSZ-13 and Cu/SAPO-34 catalysts for deNO _x in diesel exhaust: Current status, challenges, and future perspectives. <i>Applied Catalysis A: General</i> , 2020, 607, 117855.	2.2	56
12	Controlling Catalytic Selectivity Mediated by Stabilization of Reactive Intermediates in Small-Pore Environments: A Study of Mn/TiO ₂ in the NH ₃ -SCR Reaction. <i>ACS Catalysis</i> , 2020, 10, 12017-12030.	5.5	40
13	Selective Catalytic Reduction of NO Using Phase-Pure Anatase, Rutile, and Brookite TiO ₂ Nanocrystals. <i>Inorganic Chemistry</i> , 2020, 59, 15324-15334.	1.9	23
14	Synthesis of Co-doped MnO ₂ catalysts with the assistance of PVP for low-temperature SCR. <i>Catalysis Science and Technology</i> , 2020, 10, 8086-8093.	2.1	9
15	Facile synthesis of cost-effective iron enhanced hetero-structure activated carbon/geopolymer composite catalyst for NH ₃ -SCR: Insight into the role of iron species. <i>Applied Catalysis A: General</i> , 2020, 605, 117804.	2.2	19
16	Understanding of NO _x storage property of impregnated Ba species after crystallization of mesoporous alumina powders. <i>Journal of Hazardous Materials</i> , 2020, 398, 122791.	6.5	11
17	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
18	Tailored Alkali Resistance of DeNO _x Catalysts by Improving Redox Properties and Activating Adsorbed Reactive Species. <i>IScience</i> , 2020, 23, 101173.	1.9	27

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19	Spatially Nanoconfined Architectures: A Promising Design for Selective Catalytic Reduction of NO _x . <i>ChemCatChem</i> , 2020, 12, 5599-5610.	1.8	15
20	Comparative study of Ce-Nb-Ti oxide catalysts prepared by different methods for selective catalytic reduction of NO with NH ₃ . <i>Molecular Catalysis</i> , 2020, 496, 111161.	1.0	6
21	Rationally Tailored Redox Properties of a Mesoporous Mn ²⁺ -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
22	Environmental Reactions of Air-Quality Protection on Eco-Friendly Iron-Based Catalysts. <i>Catalysts</i> , 2020, 10, 1415.	1.6	11
23	Distinct NO ₂ Effects on Cu-SSZ-13 and Cu-SSZ-39 in the Selective Catalytic Reduction of NO _x with NH ₃ . <i>Environmental Science & Technology</i> , 2020, 54, 15499-15506.	4.6	48
24	Excellent performance of one-pot synthesized Fe-containing MCM-22 zeolites for the selective catalytic reduction of NO _x with NH ₃ . <i>Catalysis Science and Technology</i> , 2020, 10, 6583-6598.	2.1	21
25	Comparison of Selective Catalytic Reduction Performance of Mn ²⁺ -Co Bimetal Oxides Prepared by Different Methods. <i>ChemistrySelect</i> , 2020, 5, 9409-9416.	0.7	4
26	Selective catalytic reduction of NO _x with NH ₃ over TiO ₂ supported metal sulfate catalysts prepared via a sol-gel protocol. <i>New Journal of Chemistry</i> , 2020, 44, 13598-13605.	1.4	19
27	Modification of composite catalytic material Cu _m V _n O _x @CeO ₂ core-shell nanorods with tungsten for NH ₃ -SCR. <i>Nanoscale</i> , 2020, 12, 16366-16380.	2.8	30
28	Selective catalytic oxidation of NH ₃ over noble metal-based catalysts: state of the art and future prospects. <i>Catalysis Science and Technology</i> , 2020, 10, 5792-5810.	2.1	82
29	The poisoning effect of KCl and K ₂ O on CeO ₂ -TiO ₂ catalyst for selective catalytic reduction of NO with NH ₃ . <i>Fuel</i> , 2020, 280, 118638.	3.4	24
30	Single-atom site catalysts for environmental catalysis. <i>Nano Research</i> , 2020, 13, 3165-3182.	5.8	252
31	Morphology-Sensitive Sulfation Effect on Ceria Catalysts for NH ₃ -SCR. <i>Topics in Catalysis</i> , 2020, 63, 932-943.	1.3	24
32	Advances in the synthesis, characterisation, and mechanistic understanding of active sites in Fe-zeolites for redox catalysts. <i>Dalton Transactions</i> , 2020, 49, 14749-14757.	1.6	15
33	Mechanistic insights of selective syngas conversion over Zn grafted on ZSM-5 zeolite. <i>Catalysis Science and Technology</i> , 2020, 10, 8173-8181.	2.1	6
34	Single-atom Automobile Exhaust Catalysts. <i>ChemNanoMat</i> , 2020, 6, 1659-1682.	1.5	27
35	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
36	Computational Study of Urea-Water Solution Sprays for the Analysis of the Injection Process in SCR-like Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18659-18673.	1.8	8

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37	Ambient electrosynthesis of ammonia with efficient denitration. <i>Nano Energy</i> , 2020, 78, 105321.	8.2	110
38	Hydrocarbon and Soot Oxidation over Cerium and Iron Doped Vanadium SCR Catalysts. <i>ChemCatChem</i> , 2020, 12, 6272-6284.	1.8	9
39	Novel Methods for Assessing the SO ₂ Poisoning Effect and Thermal Regeneration Possibility of MO _x /WO ₃ /TiO ₂ (M = Fe, Mn, Cu, and V) Catalysts for NH ₃ -SCR. <i>Environmental Science & Technology</i> , 2020, 54, 12612-12620.	4.6	69
40	Effect of Formaldehyde in Selective Catalytic Reduction of NO _x by Ammonia (NH ₃ -SCR) on a Commercial V ₂ O ₅ -WO ₃ /TiO ₂ Catalyst under Model Conditions. <i>Environmental Science & Technology</i> , 2020, 54, 11753-11761.	4.6	26
41	Spectroscopic identification of the δ -SSNO isomers. <i>Journal of Chemical Physics</i> , 2020, 153, 094303.	1.2	3
42	Self-Protected CeO ₂ @SnO ₂ @SO ₄ ²⁻ /TiO ₂ Catalysts with Extraordinary Resistance to Alkali and Heavy Metals for NO _x Reduction. <i>Environmental Science & Technology</i> , 2020, 54, 12752-12760.	4.6	79
43	Morphology-Controlled Synthesis of TiO ₂ with Different Structural Units and Applied for the Selective Catalytic Reduction of NO _x with NH ₃ . <i>Catalysis Surveys From Asia</i> , 2020, 24, 300-312.	1.0	2
44	New Insight into the Effects of NH ₃ on SO ₂ Poisoning for In Situ Removal of Metal Sulfates in Low-Temperature NH ₃ -SCR over an Fe@V Catalyst. <i>Journal of Physical Chemistry C</i> , 2020, 124, 21396-21406.	1.5	25
45	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
46	Recent Progress on Improving Low-Temperature Activity of Vanadia-Based Catalysts for the Selective Catalytic Reduction of NO _x with Ammonia. <i>Catalysts</i> , 2020, 10, 1421.	1.6	27
47	High Surface Area VO _x /TiO ₂ /SBA-15 Model Catalysts for Ammonia SCR Prepared by Atomic Layer Deposition. <i>Catalysts</i> , 2020, 10, 1386.	1.6	13
48	Copper Aluminum Spinel Doped with Cerium as Catalysts for NO Removal. <i>Catalysts</i> , 2020, 10, 1388.	1.6	4
49	A highly active VO-MnO/CeO ₂ for selective catalytic reduction of NO: The balance between redox property and surface acidity. <i>Journal of Rare Earths</i> , 2021, 39, 1370-1381.	2.5	9
50	Effect of Calcination Temperature on the Activation Performance and Reaction Mechanism of Ce@Mn@Ru/TiO ₂ Catalysts for Selective Catalytic Reduction of NO with NH ₃ . <i>ACS Omega</i> , 2020, 5, 33357-33371.	1.6	18
51	Migration of cations and shell functionalization for Cu-Ce-La/SSZ-13@ZSM-5: The contribution to activity and hydrothermal stability in the selective catalytic reduction reaction. <i>Journal of Catalysis</i> , 2020, 392, 217-230.	3.1	41
52	FeSTi Superacid Catalyst for NH ₃ -SCR with Superior Resistance to Metal Poisons in Flue Gas. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 16878-16888.	3.2	24
53	Facet-, composition- and wavelength-dependent photocatalysis of Ag ₂ MoO ₄ . <i>RSC Advances</i> , 2020, 10, 18377-18383.	1.7	13
54	Unraveling the Unexpected Offset Effects of Cd and SO ₂ Deactivation over CeO ₂ -WO ₃ /TiO ₂ Catalysts for NO _x Reduction. <i>Environmental Science & Technology</i> , 2020, 54, 7697-7705.	4.6	91

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55	Environmental benign synthesis of Nano-SSZ-13 via FAU trans-crystallization: Enhanced NH ₃ -SCR performance on Cu-SSZ-13 with nano-size effect. <i>Journal of Hazardous Materials</i> , 2020, 398, 122986.	6.5	58
56	Challenges and opportunities for manganese oxides in low-temperature selective catalytic reduction of NO _x with NH ₃ : H ₂ O resistance ability. <i>Journal of Solid State Chemistry</i> , 2020, 289, 121464.	1.4	42
57	Design of practical Ce/CoMnAl-LDO catalyst for low-temperature NH ₃ -SCR. <i>Catalysis Communications</i> , 2020, 142, 106037.	1.6	10
58	Boosting the Alkali/Heavy Metal Poisoning Resistance for NO Removal by Using Iron-Titanium Pillared Montmorillonite Catalysts. <i>Journal of Hazardous Materials</i> , 2020, 399, 122947.	6.5	34
59	A MnO _x @Eu-CeO _x nanorod catalyst with multiple protective effects: Strong SO ₂ -tolerance for low temperature DeNO _x processes. <i>Journal of Hazardous Materials</i> , 2020, 399, 123011.	6.5	26
60	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
61	A new insight into the promotional effect of nitrogen-doping in activated carbon for selective catalytic reduction of NO _x with NH ₃ . <i>Science of the Total Environment</i> , 2020, 740, 140158.	3.9	33
62	Low-temperature selective catalytic reduction of NO _x with NH ₃ over zeolite catalysts: A review. <i>Chinese Chemical Letters</i> , 2020, 31, 2549-2555.	4.8	50
63	Novel Ni-Mn Bi-oxides Doped Active Coke Catalysts for NH ₃ -SCR DeNO _x at Low Temperature. <i>ChemistrySelect</i> , 2020, 5, 6494-6503.	0.7	10
64	Insights into the structure-activity relationships of highly efficient CoMn oxides for the low temperature NH ₃ -SCR of NO _x . <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119215.	10.8	68
65	Porous TiO ₂ aerogel-modified SiC ceramic membrane supported MnO _x catalyst for simultaneous removal of NO and dust. <i>Journal of Membrane Science</i> , 2020, 611, 118366.	4.1	37
66	Ligand-Assisted Solid-State Transformation of Nanoparticles. <i>Chemistry of Materials</i> , 2020, 32, 3271-3277.	3.2	13
67	Recent Developments in the Recycling of Spent Selective Catalytic Reduction Catalyst in South Korea. <i>Catalysts</i> , 2020, 10, 182.	1.6	10
68	Sequential Cleavage of Lignin Systems by Nitrogen Monoxide and Hydrazine. <i>Advanced Synthesis and Catalysis</i> , 2020, 362, 1485-1489.	2.1	3
69	Alkali and Phosphorus Resistant Zeolite-like Catalysts for NO _x Reduction by NH ₃ . <i>Environmental Science & Technology</i> , 2020, 54, 9132-9141.	4.6	66
70	Dual roles of cellulose monolith in the continuous-flow generation and support of gold nanoparticles for green catalyst. <i>Carbohydrate Polymers</i> , 2020, 247, 116723.	5.1	14
71	Effect of oxygen vacancies on ceria catalyst for selective catalytic reduction of NO with NH ₃ . <i>Applied Surface Science</i> , 2020, 529, 147068.	3.1	60
72	Catalytic removal of NO and dioxins over W-Zr-Ox/Ti-Ce-Mn-Ox from flue gas: Performance and mechanism study. <i>Catalysis Today</i> , 2022, 388-389, 372-382.	2.2	13

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73	Superfast flow reactor derived from the used cigarette filter for the degradation of pollutants in water. <i>Journal of Hazardous Materials</i> , 2020, 400, 123303.	6.5	15
74	Synergetic catalytic removal of chlorobenzene and NO from waste incineration exhaust over MnNb _{0.4} Ce _{0.2} O catalysts: Performance and mechanism study. <i>Journal of Rare Earths</i> , 2020, 38, 1178-1189.	2.5	20
75	Severe deactivation and artificial enrichment of thallium on commercial SCR catalysts installed in cement kiln. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119194.	10.8	20
76	Investigation on optimal active layer thickness and pore size in dual-layer NH ₃ -SCR monolith for low SO ₂ oxidation by numerical simulation. <i>Fuel</i> , 2020, 279, 118420.	3.4	14
77	Nanosized V-Ce Oxides Supported on TiO ₂ as a Superior Catalyst for the Selective Catalytic Reduction of NO. <i>Catalysts</i> , 2020, 10, 202.	1.6	6
78	Deactivation mechanism of Cu active sites in Cu/SSZ-13 after Phosphorus poisoning and the effect of hydrothermal aging. <i>Applied Catalysis B: Environmental</i> , 2020, 269, 118781.	10.8	45
79	Component synergistic catalysis of Ce-Sn-W-Ba-Ox/TiO ₂ in selective catalytic reduction of NO with ammonia. <i>Applied Surface Science</i> , 2020, 512, 145757.	3.1	15
80	The Structure Effect on the Activity and Strength of an Industrial Honeycomb Catalyst Derived from Different Ti Sources. <i>Catalysts</i> , 2020, 10, 42.	1.6	1
81	The poisoning mechanism of gaseous HCl on low-temperature SCR catalysts: MnO _x /CeO ₂ as an example. <i>Applied Catalysis B: Environmental</i> , 2020, 267, 118668.	10.8	82
82	Titanium-Samarium-Manganese Composite Oxide for the Low-Temperature Selective Catalytic Reduction of NO with NH ₃ . <i>Environmental Science & Technology</i> , 2020, 54, 2530-2538.	4.6	75
83	Preparation of Mesoporous Mn-Ce-Ti-O Aerogels by a One-Pot Sol-Gel Method for Selective Catalytic Reduction of NO with NH ₃ . <i>Materials</i> , 2020, 13, 475.	1.3	11
84	Enhancement of the Hydrothermal Stability of WO ₃ /Ce _{0.68} Zr _{0.32} O ₂ Catalyst by Silica Modification for NH ₃ -SCR. <i>ACS Applied Energy Materials</i> , 2020, 3, 1161-1170.	2.5	19
85	In Situ Investigations on the Facile Synthesis and Catalytic Performance of CeO ₂ -Pt/Al ₂ O ₃ Catalyst. <i>Catalysts</i> , 2020, 10, 143.	1.6	7
86	Effect of SO ₂ treatment in the presence and absence of O ₂ over ceria-titania oxides for selective catalytic reduction. <i>Journal of Materials Science</i> , 2020, 55, 4570-4577.	1.7	3
87	The deactivation effect of Na ₂ O and NaCl on CeO ₂ /TiO ₂ catalysts for selective catalytic reduction of NO with NH ₃ . <i>Journal of the Energy Institute</i> , 2020, 93, 1332-1340.	2.7	13
88	Synergistic effect of mixer and mixing chamber on flow mixing and NO _x reduction in a marine urea-SCR system. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 150, 107888.	1.8	23
89	Novel shielding and synergy effects of Mn-Ce oxides confined in mesoporous zeolite for low temperature selective catalytic reduction of NO _x with enhanced SO ₂ /H ₂ O tolerance. <i>Journal of Hazardous Materials</i> , 2020, 396, 122592.	6.5	79
90	Unveiling the traits of rare earth metal (RM)-substituted bimetallic Ce _{0.5} RM _{0.5} V ₁₀ O ₄ phases to activate selective NH ₃ oxidation and NO _x reduction. <i>Applied Surface Science</i> , 2020, 518, 146238.	3.1	21

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91	Poisoning-Resistant NO _x Reduction in the Presence of Alkaline and Heavy Metals over H-SAPO-34-Supported Ce-Promoted Cu-Based Catalysts. <i>Environmental Science & Technology</i> , 2020, 54, 6396-6405.	4.6	101
92	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.	5.0	30
93	A facile and controllable in situ sulfation strategy for CuCeZr catalyst for NH ₃ -SCR. <i>Applied Catalysis A: General</i> , 2020, 597, 117554.	2.2	33
94	Partial Oxidation of NO by H ₂ O ₂ and afterward Reduction by NH ₃ -Selective Catalytic Reduction: An Efficient Method for NO Removal. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9393-9397.	1.8	14
95	Simultaneous removal of particulates and NO by the catalytic bag filter containing V ₂ O ₅ -MoO ₃ /TiO ₂ . <i>Korean Journal of Chemical Engineering</i> , 2020, 37, 633-640.	1.2	14
96	Gas-Phase Photoelectrocatalytic Oxidation of NO <i>via</i> TiO ₂ Nanorod Array/FTO Photoanodes. <i>Environmental Science & Technology</i> , 2020, 54, 5902-5912.	4.6	42
97	Theory and practice of metal oxide catalyst design for the selective catalytic reduction of NO with NH ₃ . <i>Catalysis Today</i> , 2021, 376, 292-301.	2.2	71
98	Acid-pretreated red mud for selective catalytic reduction of NO with NH ₃ : Insights into inhibition mechanism of binders. <i>Catalysis Today</i> , 2021, 376, 247-254.	2.2	21
99	Utilization of electrochemical treatment and surface reconstruction to achieve long lasting catalyst for NO _x removal. <i>Journal of Hazardous Materials</i> , 2021, 401, 123440.	6.5	21
100	Low-temperature NO reduction performance of peanut shell-derived few-layer graphene loaded CeCo _x Mn _{1-x} O ₃ catalyst. <i>Journal of Dispersion Science and Technology</i> , 2021, 42, 900-909.	1.3	8
101	Coinage metal clusters: From superatom chemistry to genetic materials. <i>Coordination Chemistry Reviews</i> , 2021, 429, 213643.	9.5	57
102	Understanding the high performance of an iron-antimony binary metal oxide catalyst in selective catalytic reduction of nitric oxide with ammonia and its tolerance of water/sulfur dioxide. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 427-441.	5.0	28
103	Structure and mechanistic relevance of Ni ₂ +NO adduct in model HC SCR reaction over NiZSM-5 catalyst – Insights from standard and correlation EPR and IR spectroscopic studies corroborated by molecular modeling. <i>Journal of Catalysis</i> , 2021, 394, 206-219.	3.1	14
104	Comprehensive understanding of the superior performance of Sm-modified Fe ₂ O ₃ catalysts with regard to NO conversion and H ₂ O/SO ₂ resistance in the NH ₃ -SCR reaction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 417-430.	6.9	67
105	Selective catalytic reduction of NO with NH ₃ and CH ₄ over zeolite supported indium-cerium bimetallic catalysts for lean-burn natural gas engines. <i>Chemical Engineering Journal</i> , 2021, 403, 126394.	6.6	30
106	Regeneration of alkali poisoned TiO ₂ -based catalyst by various acids in NO selective catalytic reduction with NH ₃ . <i>Fuel</i> , 2021, 285, 119069.	3.4	17
107	Environmental-friendly production of FeNbTi catalyst with significant enhancement in SCR activity and SO ₂ resistance for NO _x removal. <i>Fuel</i> , 2021, 285, 119133.	3.4	32
108	In situ/operando spectroscopic studies on NH ₃ -SCR reactions catalyzed by a phosphorus-modified Cu-CHA zeolite. <i>Catalysis Today</i> , 2021, 376, 73-80.	2.2	12

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109	Potassium Titanate Nanobelts: A Unique Support for Au and AuRh Nanoparticles in the Catalytic Reduction of NO with CO. <i>ChemCatChem</i> , 2021, 13, 438-444.	1.8	7
110	One-pot hydrothermal synthesis of dual metal incorporated CuCe-SAPO-34 zeolite for enhancing ammonia selective catalytic reduction. <i>Journal of Hazardous Materials</i> , 2021, 405, 124177.	6.5	25
111	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.	4.8	24
112	Synthesis and characterisation of monolithic $\text{Pt}/\text{MnO}_x/\text{FeO}_x$ catalysts for selective catalytic reduction (SCR) of NO_x at low temperature. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 1016-1029.	1.6	5
113	Superior Ce-Nb-Ti oxide catalysts for selective catalytic reduction of NO with NH ₃ . <i>Journal of the Energy Institute</i> , 2021, 94, 73-84.	2.7	15
114	Sulfate of potash and yellow phosphorus to simultaneously remove SO ₂ -NO and obtain a complete fertilizer. <i>Atmospheric Pollution Research</i> , 2021, 12, 147-158.	1.8	9
115	The microscopic oxidation mechanism of NH ₃ on CuO(111): A first-principles study. <i>Fuel Processing Technology</i> , 2021, 213, 106712.	3.7	15
116	Significant differences of NH ₃ -SCR performances between monoclinic and hexagonal WO ₃ on Ce-based catalysts. <i>Environmental Science: Nano</i> , 2021, 8, 2988-3000.	2.2	11
117	Core-Shell Confinement MnCeO _x @ZSM-5 Catalyst for NO _x Removal with Enhanced Performances to Water and SO ₂ Resistance. <i>Nanostructure Science and Technology</i> , 2021, , 165-179.	0.1	1
118	Rationalizing the promotional effect of Mn oxides in benzene combustion using an O 2p-band center descriptor. <i>Chemical Communications</i> , 2021, 57, 4942-4945.	2.2	3
119	A review of Mn-based catalysts for low-temperature NH ₃ -SCR: NO _x removal and H ₂ O/SO ₂ resistance. <i>Nanoscale</i> , 2021, 13, 7052-7080.	2.8	109
120	Titanium-silicon ferrierites and their delaminated forms modified with copper as effective catalysts for low-temperature NH ₃ -SCR. <i>RSC Advances</i> , 2021, 11, 10847-10859.	1.7	7
121	Copper Doping Promotion on Ce/CAC-CNT Catalysts with High Sulfur Dioxide Tolerance for Low-Temperature NH ₃ -SCR. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 987-997.	3.2	28
122	Effect of FeO _x and MnO _x doping into the CeO ₂ -VO ₅ /TiO ₂ nanocomposite on the performance and mechanism in selective catalytic reduction of NO _x with NH ₃ . <i>Catalysis Science and Technology</i> , 2021, 11, 2852-2863.	2.1	12
123	Porous g-C ₃ N ₄ /TiO ₂ foam photocatalytic filter for treating NO indoor gas. <i>Environmental Science: Nano</i> , 2021, 8, 1571-1579.	2.2	10
124	Bulk tungsten-substituted vanadium oxide for low-temperature NO _x removal in the presence of water. <i>Nature Communications</i> , 2021, 12, 557.	5.8	92
125	Recent advances in metal/ceria catalysts for air pollution control: mechanism insight and application. <i>Environmental Science: Nano</i> , 2021, 8, 2760-2779.	2.2	8
126	Enhancing catalytic performance of Cu-SSZ-13 for the NH ₃ -SCR reaction <i>in situ</i> introduction of Fe ³⁺ with diatomite. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7787-7795.	3.2	14

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127	Nanoarchitectonics: what's coming next after nanotechnology?. <i>Nanoscale Horizons</i> , 2021, 6, 364-378.	4.1	221
128	SO ₂ Resisting Pd-doped Pr _{1-x} Ce _x MnO ₃ Perovskites for Efficient Denitration at Low Temperature. <i>Chemistry - an Asian Journal</i> , 2021, 16, 530-537.	1.7	4
129	NO _x and SO _x Flue Gas Treatment System Based on Sulfur-Enriched Organic Oil in Water Emulsion. <i>ACS Omega</i> , 2021, 6, 2570-2575.	1.6	3
130	FeVO ₄ -supported Mn-Ce oxides for the low-temperature selective catalytic reduction of NO _x by NH ₃ . <i>Catalysis Science and Technology</i> , 2021, 11, 6770-6781.	2.1	16
131	Creating self-assembled arrays of mono-oxo (MoO ₃) ₁ species on TiO ₂ (101) via deposition and decomposition of (MoO ₃) _n oligomers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	10
132	Promotional Effects on NH ₃ -SCR Performance of CeO ₂ -SnO ₂ Catalysts Doped by TiO ₂ : A Mechanism Study. <i>Catalysis Surveys From Asia</i> , 2021, 25, 48-57.	1.0	11
133	Controlling the dispersion of ceria using nanoconfinement: application to CeO ₂ /SBA-15 catalysts for NH ₃ -SCR. <i>Materials Advances</i> , 2021, 2, 7400-7412.	2.6	6
134	Application of ReO _x /TiO ₂ catalysts with excellent SO ₂ tolerance for the selective catalytic reduction of NO _x by NH ₃ . <i>Catalysis Science and Technology</i> , 0, , .	2.1	63
135	Tailored activity of Cu-Fe bimetallic Beta zeolite with promising C ₃ H ₆ resistance for NH ₃ -SCR. <i>Catalysis Science and Technology</i> , 2021, 11, 646-655.	2.1	9
136	Solvent-free elaboration of Ni-doped MnO _x catalysts with high performance for NH ₃ -SCR in low and medium temperature zones. <i>Molecular Catalysis</i> , 2021, 501, 111376.	1.0	7
137	Simple physical mixing of zeolite prevents sulfur deactivation of vanadia catalysts for NO _x removal. <i>Nature Communications</i> , 2021, 12, 901.	5.8	49
138	Cu-IM-5 as the Catalyst for Selective Catalytic Reduction of NO _x with NH ₃ : Role of Cu Species and Reaction Mechanism. <i>Catalysts</i> , 2021, 11, 221.	1.6	8
139	Organotemplate-free synthesis of MOR zeolite from coal fly ash through simultaneously effective extraction of Si and Al. <i>Microporous and Mesoporous Materials</i> , 2021, 314, 110872.	2.2	10
140	Iron-Based Composite Oxide Catalysts Tuned by CTAB Exhibit Superior NH ₃ -SCR Performance. <i>Catalysts</i> , 2021, 11, 224.	1.6	7
141	Mechanism of Ce-Modified Birnessite-MnO ₂ in Promoting SO ₂ Poisoning Resistance for Low-Temperature NH ₃ -SCR. <i>ACS Catalysis</i> , 2021, 11, 4125-4135.	5.5	138
142	Improving the Performance of Gd Addition on Catalytic Activity and SO ₂ Resistance over MnO _x /ZSM-5 Catalysts for Low-Temperature NH ₃ -SCR. <i>Catalysts</i> , 2021, 11, 324.	1.6	16
143	High-Throughput NO _x Removal by Two-Stage Plasma Honeycomb Monolith Catalyst. <i>Environmental Science & Technology</i> , 2021, 55, 6386-6396.	4.6	11
144	State-of-Art Review of NO Reduction Technologies by CO, CH ₄ and H ₂ . <i>Processes</i> , 2021, 9, 563.	1.3	19

#	ARTICLE	IF	CITATIONS
145	CuW/CeZr Catalysts: A Dual-Function Catalyst for Selective Catalytic Reduction of NO and CO Oxidation Under Oxygen-Rich Conditions. <i>Catalysis Letters</i> , 2021, 151, 3361-3371.	1.4	6
146	Study on the Synthesis of Chabazite Zeolites via Interzeolite Conversion of Faujasites. <i>Journal of Analytical Methods in Chemistry</i> , 2021, 2021, 1-10.	0.7	4
147	Superior Oxidative Dehydrogenation Performance toward NH ₃ Determines the Excellent Low-Temperature NH ₃ -SCR Activity of Mn-Based Catalysts. <i>Environmental Science & Technology</i> , 2021, 55, 6995-7003.	4.6	83
148	Role of silver species in H ₂ -NH ₃ -SCR of NO _x over Ag/Al ₂ O ₃ catalysts: Operando spectroscopy and DFT calculations. <i>Journal of Catalysis</i> , 2021, 395, 1-9.	3.1	29
149	Thulium modified MnOx/TiO ₂ catalyst for the low-temperature selective catalytic reduction of NO with ammonia. <i>Journal of Cleaner Production</i> , 2021, 290, 125858.	4.6	44
150	Mobility of Cu Ions in Cu-SSZ-13 Determines the Reactivity of Selective Catalytic Reduction of NO _x with NH ₃ . <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 3210-3216.	2.1	33
151	Ca Doping Effect on the Competition of NH ₃ -SCR and NH ₃ Oxidation Reactions over Vanadium-Based Catalysts. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6128-6136.	1.5	32
152	Advanced Synthesis and Characterization of Vanadia/Titania Catalysts through a Molecular Approach. <i>Catalysts</i> , 2021, 11, 322.	1.6	4
153	Advances in De-NO _x Methods and Catalysts for Direct Catalytic Decomposition of NO: A Review. <i>Energy & Fuels</i> , 2021, 35, 6443-6464.	2.5	24
154	Ce-Si Mixed Oxide: A High Sulfur Resistant Catalyst in the NH ₃ -SCR Reaction through the Mechanism-Enhanced Process. <i>Environmental Science & Technology</i> , 2021, 55, 4017-4026.	4.6	66
155	Insight into the activity and SO ₂ tolerance of hierarchically ordered MnFe _{1-x} Co _x O _x ternary oxides for low-temperature selective catalytic reduction of NO _x with NH ₃ . <i>Journal of Catalysis</i> , 2021, 395, 195-209.	3.1	50
156	Confined Catalysts Application in Environmental Catalysis: Current Research Progress and Future Prospects. <i>ChemCatChem</i> , 2021, 13, 2313-2336.	1.8	28
157	High-performance Fe _a Ti _b O _x catalyst loaded on ceramic filter for NO _x reduction. <i>Materials Research Express</i> , 2021, 8, 045509.	0.8	4
158	Mixed Use of Bio-Oil in Oil Power Plants: Should It Be Considered When Developing NH ₃ Emission Factors?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 4235.	1.2	0
159	NiMn ₂ O ₄ sphere catalyst for the selective catalytic reduction of NO by NH ₃ : Insight into the enhanced activity via solvothermal method. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105152.	3.3	9
160	Active sites adjustable phosphorus promoted CeO ₂ /TiO ₂ catalysts for selective catalytic reduction of NO by NH ₃ . <i>Chemical Engineering Journal</i> , 2021, 409, 128242.	6.6	27
161	One-pot synthesis of highly dispersed mesoporous Cu/ZrO ₂ catalysts for NH ₃ -SCR. <i>Catalysis Today</i> , 2022, 384-386, 113-121.	2.2	13
162	Critical Roles of Surface Oxygen Vacancy in Heterogeneous Catalysis over Ceria-based Materials: A Selected Review. <i>Chemistry Letters</i> , 2021, 50, 856-865.	0.7	26

#	ARTICLE	IF	CITATIONS
163	MnO _x location on MnO _x -ZSM-5 to influence the catalytic activity for selective catalytic reduction of NO _x by NH ₃ . Applied Catalysis A: General, 2021, 617, 118128.	2.2	27
164	Insight into the Promoting Role of Er Modification on SO ₂ Resistance for NH ₃ -SCR at Low Temperature over FeMn/TiO ₂ Catalysts. Catalysts, 2021, 11, 618.	1.6	8
165	Multi-pollutant control (MPC) of NO and chlorobenzene from industrial furnaces using a vanadia-based SCR catalyst. Applied Catalysis B: Environmental, 2021, 285, 119835.	10.8	54
166	Enhanced sulfur resistance of H ₃ PW ₁₂ O ₄₀ -modified Fe ₂ O ₃ catalyst for NH ₃ -SCR: Synergistic effect of surface acidity and oxidation ability. Chemical Engineering Journal, 2021, 412, 128712.	6.6	44
167	Facile Preparation of CeO ₂ Supported on Graphene Oxide Sheets for NH ₃ -SCR: Improvement of Catalytic Activity and SO ₂ Tolerance. ChemistrySelect, 2021, 6, 4859-4865.	0.7	6
168	Deactivation of CeO ₂ -TiO ₂ catalyst by K ₂ SO ₄ for NH ₃ -SCR: An experimental and DFT study. Applied Surface Science, 2021, 547, 149196.	3.1	31
169	One-Pot Three-Dimensional Printing Robust Self-Supporting MnO _x /Cu-SSZ-13 Zeolite Monolithic Catalysts for NH ₃ -SCR. CCS Chemistry, 2022, 4, 1708-1719.	4.6	14
170	Preparation of MnO _x /CNTs Catalyst by In situ Precipitation Method for Low-Temperature NO Reduction with NH ₃ . Current Nanoscience, 2021, 17, 298-306.	0.7	3
171	Tungsten-Based Catalysts for Environmental Applications. Catalysts, 2021, 11, 703.	1.6	49
172	Green rusts-derived iron oxide nanostructures catalyze NO reduction by CO. Green Energy and Environment, 2023, 8, 499-508.	4.7	5
173	Evaluation of a Data-Driven, Machine Learning Approach for Identifying Potential Candidates for Environmental Catalysts: From Database Development to Prediction. ACS ES&T Engineering, 2021, 1, 1246-1257.	3.7	8
174	Improved NO _x Reduction over Phosphate-Modified Fe ₂ O ₃ /TiO ₂ Catalysts via Tailoring Reaction Paths by In Situ Creating Alkali-Poisoning Sites. Environmental Science & Technology, 2021, 55, 9276-9284.	4.6	40
175	Enhanced hydrothermal stability of Cu/SSZ-39 with increasing Cu contents, and the mechanism of selective catalytic reduction of NO. Microporous and Mesoporous Materials, 2021, 320, 111060.	2.2	21
176	Reaction Pathways of the Selective Catalytic Reduction of NO with NH ₃ on the Fe ₂ O ₃ (012) Surface: a Combined Experimental and DFT Study. Environmental Science & Technology, 2021, 55, 10967-10974.	4.6	48
177	Low temperature SCR of NO _x over Mn/Fe mixed oxides catalyst: comparison of synthesis methods. Journal of Chemical Technology and Biotechnology, 2021, 96, 2681-2695.	1.6	6
178	Construction of Fe ₂ O ₃ loaded and mesopore confined thin-layer titania catalyst for efficient NH ₃ -SCR of NO _x with enhanced H ₂ O/SO ₂ tolerance. Applied Catalysis B: Environmental, 2021, 287, 119982.	10.8	64
179	In Search of the Active Sites for the Selective Catalytic Reduction on Tungsten-Doped Vanadia Monolayer Catalysts Supported by TiO ₂ . ACS Catalysis, 2021, 11, 7411-7421.	5.5	14
180	Facile synthesis of hollow nanotube MnCoO _x catalyst with superior resistance to SO ₂ and alkali metal poisons for NH ₃ -SCR removal of NO _x . Separation and Purification Technology, 2021, 265, 118517.	3.9	52

#	ARTICLE	IF	CITATIONS
181	Unraveling Reactivity Descriptors and Structure Sensitivity in Low-Temperature NH ₃ -SCR Reaction over CeTiO _x Catalysts: A Combined Computational and Experimental Study. ACS Catalysis, 2021, 11, 7613-7636.	5.5	75
182	New Insights on Competitive Adsorption of NO/SO ₂ on TiO ₂ Anatase for Photocatalytic NO Oxidation. Environmental Science & Technology, 2021, 55, 9285-9292.	4.6	24
183	Adsorption of nitrate and nitrite from aqueous solution by magnetic Mg/Fe hydrotalcite. Water Science and Technology: Water Supply, 2021, 21, 4287-4300.	1.0	6
184	Selective catalytic reduction of NO _x in marine engine exhaust gas over supported transition metal oxide catalysts. Chemical Engineering Journal, 2021, 414, 128794.	6.6	23
185	Theoretical Study on the NO _x Selective Catalytic Reduction on Single-Cu Sites and Brønsted Acid Sites in Cu-SSZ-13. Journal of Physical Chemistry C, 2021, 125, 12594-12602.	1.5	10
186	Comparative DFT study of the oxy(hydr)oxides of iron and aluminum – structural, electronic and surface properties.. Surface Science, 2021, 708, 121821.	0.8	3
187	Cu-ZSM-5 Catalyst Impregnated with Mn-Co Oxide for the Selected Catalytic Reduction of NO: Physicochemical Property-Catalytic Activity Relationship and In Situ DRIFTS Study for the Reaction Mechanism. ACS Catalysis, 2021, 11, 7702-7718.	5.5	59
188	Pragmatic Approach toward Catalytic CO Emission Mitigation in Fluid Catalytic Cracking (FCC) Units. Catalysts, 2021, 11, 707.	1.6	3
189	Impact of toluene poisoning on MnCe/HZSM-5 SCR catalyst. Chemical Engineering Journal, 2021, 414, 128838.	6.6	46
190	Enhanced activity of vanadia supported on microporous titania for the selective catalytic reduction of NO with NH ₃ : Effect of promoters. Chemosphere, 2021, 275, 130105.	4.2	7
191	Synergistic effect of cobalt and niobium in Co ₃ -Nb-Ox on performance of selective catalytic reduction of NO with NH ₃ . Rare Metals, 2022, 41, 166-178.	3.6	19
192	Promoting nitric oxide electroreduction to ammonia over electron-rich Cu modulated by Ru doping. Science China Chemistry, 2021, 64, 1493-1497.	4.2	83
193	Cleavage of Organosolv Lignin to Phenols Using Nitrogen Monoxide and Hydrazine. ACS Omega, 2021, 6, 19400-19408.	1.6	0
194	Enhanced performance of iron-cerium NO reduction catalysts by sulfuric acid treatment: The synergistic effect of surface acidity and redox capacity. Applied Catalysis A: General, 2021, 621, 118200.	2.2	14
195	Promotion of NH ₃ -SCR activity by sulfate-modification over mesoporous Fe doped CeO ₂ catalyst: Structure and mechanism. Journal of Hazardous Materials, 2021, 414, 125565.	6.5	41
196	Design of High-Performance Iron-Niobium Composite Oxide Catalysts for NH ₃ -SCR: Insights into the Interaction between Fe and Nb. ACS Catalysis, 2021, 11, 9825-9836.	5.5	66
197	Molybdenum oxide as an efficient promoter to enhance the NH ₃ -SCR performance of CeO ₂ -SiO ₂ catalyst for NO removal. Catalysis Today, 2022, 397-399, 475-483.	2.2	19
198	Influence of CePO ₄ with different crystalline phase on selective catalytic reduction of NO with ammonia. Journal of Rare Earths, 2022, 40, 1219-1231.	2.5	5

#	ARTICLE	IF	CITATIONS
199	N2O inhibition by toluene over Mn-Fe spinel SCR catalyst. Journal of Hazardous Materials, 2021, 414, 125468.	6.5	38
200	First-principles insights into the adsorption and interaction mechanism of selenium on selective catalytic reduction catalyst. Chemosphere, 2021, 275, 130057.	4.2	10
201	Alkali-Resistant Catalytic Reduction of NO _x via Naturally Coupling Active and Poisoning Sites. Environmental Science & Technology, 2021, 55, 11255-11264.	4.6	32
202	Insights into the co-doping effect of Fe ³⁺ and Zr ⁴⁺ on the anti-K performance of CeTiO _x catalyst for NH ₃ -SCR reaction. Journal of Hazardous Materials, 2021, 416, 125821.	6.5	38
203	Revealing the effect of paired redox-acid sites on metal oxide catalysts for efficient NO removal by NH ₃ -SCR. Journal of Hazardous Materials, 2021, 416, 125826.	6.5	43
204	Promotional effect of ceria on the catalytic behaviour of new V ₂ O ₅ –WO ₃ –TiO ₂ aerogel solids for the DeNO _x process. Journal of Solid State Chemistry, 2021, 300, 122261.	1.4	10
205	Alkali-Resistant Catalytic Reduction of NO _x by Using Ce–B Alkali-Capture Sites. Environmental Science & Technology, 2021, 55, 11970-11978.	4.6	51
206	Hierarchically Hollow MnO ₂ @CeO ₂ Heterostructures for NO Oxidation: Remarkably Promoted Activity and SO ₂ Tolerance. ACS Catalysis, 2021, 11, 10988-10996.	5.5	36
207	Facet-dependent catalytic activity of anatase TiO ₂ for the selective catalytic reduction of NO with NH ₃ : A dispersion-corrected density functional theory study. Applied Catalysis A: General, 2021, 623, 118250.	2.2	9
208	Support promotion effect on the SO ₂ and K ⁺ co-poisoning resistance of MnO ₂ /TiO ₂ for NH ₃ -SCR of NO. Journal of Hazardous Materials, 2021, 416, 126117.	6.5	53
209	Catalytic Reduction of NO _x With NH ₃ Over CeO ₂ and SiO ₂ Supported Tungstophosphoric Acid: Promoting Effects of Ceria Support and Cobalt Proton Substitute. Catalysis Letters, 0, , 1.	1.4	2
210	Study of Cu/Mn Catalysts for Coreactions of NH ₃ -SCR and CO Oxidation. Catalysis Letters, 2022, 152, 1752-1759.	1.4	17
211	Recent Advances in Catalysis Based on Transition Metals Supported on Zeolites. Frontiers in Chemistry, 2021, 9, 716745.	1.8	20
212	Activity enhancement of acetate precursor prepared on MnO _x -CeO ₂ catalyst for low-temperature NH ₃ -SCR: Effect of gaseous acetone addition. Chinese Chemical Letters, 2021, 32, 2509-2512.	4.8	14
213	Analogous Mechanistic Features of NH ₃ -SCR over Vanadium Oxide and Copper Zeolite Catalysts. ACS Catalysis, 2021, 11, 11180-11192.	5.5	33
214	AgY zeolite as catalyst for the selective catalytic oxidation of NH ₃ . Microporous and Mesoporous Materials, 2021, 323, 111230.	2.2	15
215	Recent progress of Pd/zeolite as passive NO _x adsorber: Adsorption chemistry, structure-performance relationships, challenges and prospects. Chinese Chemical Letters, 2022, 33, 1169-1179.	4.8	20
216	Ammonia removal in selective catalytic oxidation: Influence of catalyst structure on the nitrogen selectivity. Journal of Hazardous Materials, 2021, 416, 125782.	6.5	15

#	ARTICLE	IF	CITATIONS
217	Titania-Clay Mineral Composites for Environmental Catalysis and Photocatalysis. <i>Catalysts</i> , 2021, 11, 1087.	1.6	11
218	Transformation of Highly Stable Pt Single Sites on Defect Engineered Ceria into Robust Pt Clusters for Vehicle Emission Control. <i>Environmental Science & Technology</i> , 2021, 55, 12607-12618.	4.6	21
219	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie</i> , 2021, 133, 25467-25472.	1.6	102
220	Current progress on catalytic oxidation of toluene: a review. <i>Environmental Science and Pollution Research</i> , 2021, 28, 62030-62060.	2.7	38
221	Insight into the enhancing activity and stability of Ce modified V ₂ O ₅ /AC during cyclic desulfurization-regeneration-denitrification. <i>Journal of Hazardous Materials</i> , 2022, 424, 127397.	6.5	9
222	Poisoning effect of K with respect to Cu/ZSM-5 used for NO reduction. <i>Colloids and Interface Science Communications</i> , 2021, 44, 100465.	2.0	11
223	Toward rational design of a novel hierarchical porous Cu-SSZ-13 catalyst with boosted low-temperature NO reduction performance. <i>Journal of Catalysis</i> , 2021, 401, 309-320.	3.1	30
224	MoO ₃ /TiO ₂ catalyst with atomically dispersed O-Mo-O structures toward improving NH ₄ HSO ₄ poisoning resistance for selective catalytic reduction of nitrogen oxides. <i>Journal of Hazardous Materials</i> , 2021, 418, 126289.	6.5	12
225	ZSM-5-supported V-Cu bimetallic oxide catalyst for remarkable catalytic oxidation of toluene in coal-fired flue gas. <i>Chemical Engineering Journal</i> , 2021, 419, 129675.	6.6	44
226	Toward a viable ecological method for regenerating a commercial SCR catalyst – Selectively leaching surface deposits and reconstructing a pore landscape. <i>Journal of Cleaner Production</i> , 2021, 316, 128291.	4.6	10
227	Relationships between Adsorption Amount of Surface Sulfate and NH ₃ -SCR Performance over CeO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 21964-21974.	1.5	19
228	Excellent low-temperature NH ₃ -SCR of NO activity and resistance to H ₂ O and SO ₂ over W _{0.06} Ce _{0.12} O _x (a = 0.06, 0.12, 0.18, 0.24) catalysts: Key role of acidity derived from tungsten addition. <i>Applied Catalysis A: General</i> , 2021, 627, 118374.	2.2	16
229	Research progress on NH ₃ -SCR mechanism of metal-supported zeolite catalysts. <i>Journal of Fuel Chemistry and Technology</i> , 2021, 49, 1294-1315.	0.9	20
230	Ultralow specific surface area vermiculite supporting Mn-Ce-Fe mixed oxides as “curling catalysts” for selective catalytic reduction of NO with NH ₃ . <i>Green Chemical Engineering</i> , 2021, 2, 284-293.	3.3	10
231	A strategy for constructing highly efficient yolk-shell Ce@Mn@TiO _x catalyst with dual active sites for low-temperature selective catalytic reduction of NO with NH ₃ . <i>Chemical Engineering Journal</i> , 2021, 419, 129572.	6.6	66
232	Thermally activated epoxy-functionalized carbon as an electrocatalyst for efficient NO _x reduction. <i>Carbon</i> , 2021, 182, 516-524.	5.4	16
233	High-Performance Electrochemical NO Reduction into NH ₃ by MoS ₂ Nanosheet. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25263-25268.	7.2	180
234	Catalytic performance and mechanistic evaluation of sulfated CeO ₂ cubes for selective catalytic reduction of NO _x with ammonia. <i>Journal of Hazardous Materials</i> , 2021, 420, 126545.	6.5	27

#	ARTICLE	IF	CITATIONS
235	Water: A promoter of ammonia selective catalytic reduction over copper-exchanged LTA zeolites. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120244.	10.8	20
236	Effects of Sm modification on biochar supported Mn oxide catalysts for low-temperature NH ₃ -SCR of NO. <i>Journal of the Energy Institute</i> , 2021, 98, 234-243.	2.7	47
237	Single-atom iron as a promising low-temperature catalyst for selective catalytic reduction of NO with NH ₃ : A theoretical prediction. <i>Fuel</i> , 2021, 302, 121041.	3.4	36
238	Oxygen-vacancy mediated acidity and redox properties on WO _x /Cu-doped CeO ₂ for the removal of NO _x . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106024.	3.3	13
239	Balancing redox and acidic properties for optimizing catalytic performance of SCR catalysts: A case study of nanopolyhedron CeO ₂ -supported WO ₃ . <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105828.	3.3	7
240	Fabrication of molten nitrate/nitrite dual-phase four-channel hollow fiber membranes for nitrogen oxides separation. <i>Journal of Membrane Science</i> , 2021, 635, 119506.	4.1	6
241	Effects of SO ₂ on standard and fast SCR over CeWO ₃ : A quantitative study of the reaction pathway and active sites. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120784.	10.8	24
242	Improved NH ₃ -SCR deNO _x activity and tolerance to H ₂ O & SO ₂ at low temperature over the Nb _m Cu _{0.1-m} Ce _{0.9} O _x catalysts: Role of acidity by niobium doping. <i>Fuel</i> , 2021, 303, 121239.	3.4	24
243	The structural evolution of MnO _x with calcination temperature and their catalytic performance for propane total oxidation. <i>Applied Surface Science</i> , 2021, 565, 150596.	3.1	17
244	Effects of phosphorus modification on the catalytic properties and performance of CuCeZr mixed metal catalyst for simultaneous removal of CO and NO _x . <i>Chemical Engineering Journal</i> , 2021, 423, 130228.	6.6	32
245	Chitosan based adsorbents for the removal of phosphate and nitrate: A critical review. <i>Carbohydrate Polymers</i> , 2021, 274, 118671.	5.1	91
246	Electron structure and reaction pathway regulation on porous cobalt-doped CeO ₂ /graphene aerogel: A free-standing cathode for flexible and advanced Li-CO ₂ batteries. <i>Energy Storage Materials</i> , 2021, 42, 484-492.	9.5	38
247	Effect of the oxygen carrier ilmenite on NO _x formation in chemical-looping combustion. <i>Fuel Processing Technology</i> , 2021, 222, 106962.	3.7	9
248	Enhanced activity and water resistance of hierarchical flower-like Mn-Co binary oxides for ammonia-SCR reaction at low temperature. <i>Applied Surface Science</i> , 2021, 569, 150989.	3.1	35
249	Insights into high CO-SCR performance of CuCoAlO catalysts derived from LDH/MOFs composites and study of H ₂ O/SO ₂ and alkali metal resistance. <i>Chemical Engineering Journal</i> , 2021, 426, 131873.	6.6	50
250	Enhanced selective catalytic reduction of NO with NH ₃ over homoatomic dinuclear sites in defective Γ -Fe ₂ O ₃ . <i>Chemical Engineering Journal</i> , 2021, 426, 131845.	6.6	13
251	Recent progress of metal-exchanged zeolites for selective catalytic reduction of NO _x with NH ₃ in diesel exhaust. <i>Fuel</i> , 2021, 305, 121482.	3.4	47
252	Acid modification enhances selective catalytic reduction activity and sulfur dioxide resistance of manganese-cerium-cobalt catalysts: Insight into the role of phosphotungstic acid. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 291-306.	5.0	21

#	ARTICLE	IF	CITATIONS
253	Insight into the praseodymium effect on the NH ₃ -SCR reaction pathways over W or Nb supported ceria-zirconia based catalysts. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120563.	10.8	17
254	A novel CNTs functionalized CeO ₂ /CNTs@GAC catalyst with high NO conversion and SO ₂ tolerance for low temperature selective catalytic reduction of NO by NH ₃ . <i>Chemosphere</i> , 2021, 284, 131377.	4.2	8
255	The water resistance enhanced strategy of Mn based SCR catalyst by construction of TiO ₂ shell and superhydrophobic coating. <i>Chemical Engineering Journal</i> , 2021, 426, 131334.	6.6	33
256	Promoting effect of Ti addition on three-dimensionally ordered macroporous Mn-Ce catalysts for NH ₃ -SCR reaction: Enhanced N ₂ selectivity and remarkable water resistance. <i>Applied Surface Science</i> , 2021, 569, 151047.	3.1	34
257	Synergistic effect and mechanism of FeO and CeO co-doping on the superior catalytic performance and SO ₂ tolerance of Mn-Fe-Ce/ACN catalyst in low-temperature NH ₃ -SCR of NO. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106360.	3.3	44
258	Effects of sulfation on hematite for selective catalytic reduction of nitrogen oxides with ammonia. <i>Journal of Colloid and Interface Science</i> , 2022, 606, 1445-1456.	5.0	21
259	NH ₃ -SCR performance and SO ₂ resistance comparison of CeO ₂ based catalysts with Fe/Mo additive surface decoration. <i>Chemical Engineering Journal</i> , 2022, 428, 131372.	6.6	33
260	Unraveling SO ₂ -tolerant mechanism over Fe ₂ (SO ₄) ₃ /TiO ₂ catalysts for NO reduction. <i>Journal of Environmental Sciences</i> , 2022, 111, 340-350.	3.2	25
261	Catalytic performance and reaction mechanisms of NO removal with NH ₃ at low and medium temperatures on Mn-W-Sb modified siderite catalysts. <i>Journal of Environmental Sciences</i> , 2022, 115, 126-139.	3.2	15
262	Microwave-assisted preparation of porous fibrous ceramic-based catalytic filter elements for the simultaneous removal of NO and dust from high-temperature gases. <i>Separation and Purification Technology</i> , 2021, 278, 119549.	3.9	11
263	A thermodynamic approach toward selective and reversible sub-ppm H ₂ S sensing using ultra-small CuO nanorods impregnated with Nb ₂ O ₅ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17425-17433.	5.2	16
264	Vanadium Substitution as an Effective Way to Enhance the Redox Ability of Tungstophosphoric Acid and for Application of NH ₃ -SCR. <i>Catalysis Letters</i> , 2021, 151, 2250.	1.4	2
265	Decision tree analysis on the performance of zeolite-based SCR catalysts. <i>IFAC-PapersOnLine</i> , 2021, 54, 55-60.	0.5	4
266	High Temperature Stable Maghemite Nanoparticles Sandwiched between Hectorite Nanosheets. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 1110-1115.	0.6	9
267	SO ₂ -tolerant NO _x reduction over ceria-based catalysts: Shielding effects of hollandite Mn-Ti oxides. <i>Chemical Engineering Journal</i> , 2020, 397, 125535.	6.6	52
268	The insight into the role of Al ₂ O ₃ in promoting the SO ₂ tolerance of MnO _x for low-temperature selective catalytic reduction of NO _x with NH ₃ . <i>Chemical Engineering Journal</i> , 2020, 398, 125572.	6.6	65
269	Highly dispersed MnO _x @FeO _x supported by silicalite-1 for the selective catalytic reduction of NO _x with NH ₃ at low temperatures. <i>Catalysis Science and Technology</i> , 2020, 10, 5525-5534.	2.1	6
270	Synthesis of oxygen functionalized carbon nanotubes and their application for selective catalytic reduction of NO _x with NH ₃ . <i>RSC Advances</i> , 2020, 10, 16700-16708.	1.7	27

#	ARTICLE	IF	CITATIONS
272	Pollutant Control by Catalytic Methods. Advanced Topics in Science and Technology in China, 2021, , 21-103.	0.0	0
273	High-efficiency electrohydrogenation of nitric oxide to ammonia on a Ni ₂ P nanoarray under ambient conditions. Journal of Materials Chemistry A, 2021, 9, 24268-24275.	5.2	68
274	Selective catalytic reduction of NO _x with NH ₃ assisted by non-thermal plasma over CeMnZrO _x @TiO ₂ core-shell catalyst. Plasma Science and Technology, 2022, 24, 054006.	0.7	2
275	Aluminum Doped Titania as a Support of Copper Catalysts for SCR of Nitrogen Oxides. Materials, 2021, 14, 6021.	1.3	1
276	Review of Sulfur Promotion Effects on Metal Oxide Catalysts for NO _x Emission Control. ACS Catalysis, 2021, 11, 13119-13139.	5.5	69
277	Promotion effect of niobium on ceria catalyst for selective catalytic reduction of NO with NH ₃ . Journal of Rare Earths, 2022, 40, 1535-1545.	2.5	9
278	Advances in Catalytic Applications of Zeolite-Supported Metal Catalysts. Advanced Materials, 2021, 33, e2104442.	11.1	113
279	Low-temperature NH ₃ -SCR activity of M (M = Zr, Ni and Co) doped MnO supported biochar catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 106504.	3.3	42
280	Research on the deactivation mechanism of a denitration catalyst WO ₃ -V ₂ O ₅ /TiO ₂ at a coal-fired power plant. RSC Advances, 2020, 10, 44025-44033.	1.7	6
281	Extremum Seeking Control for the Catalytic Oxidation of Ammonia in Non-stationary Conditions. Advances in Intelligent Systems and Computing, 2021, , 502-514.	0.5	0
282	Unravelling Phosphorus-Induced Deactivation of Pd-SSZ-13 for Passive NO _x Adsorption and CO Oxidation. ACS Catalysis, 2021, 11, 13891-13901.	5.5	25
283	Progressive regulation of Al sites and Cu distribution to increase hydrothermal stability of hierarchical SSZ-13 for the selective catalytic reduction reaction. Applied Catalysis B: Environmental, 2022, 303, 120867.	10.8	10
284	Significant promoting effect of La doping on the wide temperature NH ₃ -SCR performance of Ce and Cu modified ZSM-5 catalysts. Journal of Solid State Chemistry, 2022, 305, 122700.	1.4	28
285	Single Mo atoms paired with neighbouring Ti atoms catalytically decompose ammonium bisulfate formed in low-temperature SCR. Journal of Materials Chemistry A, 2022, 10, 6065-6072.	5.2	6
286	High-temperature selective catalytic reduction of NO with NH ₃ : Optimization of ZrO ₂ and WO ₃ complex oxides. Fuel, 2022, 310, 122261.	3.4	8
287	Investigation of the activity of unburned carbon as a catalyst in the decomposition of NO and NH ₃ . Fuel, 2022, 309, 122170.	3.4	2
288	Mercury/oxygen reaction mechanism over CuFe ₂ O ₄ catalyst. Journal of Hazardous Materials, 2022, 424, 127556.	6.5	20
289	Mesopore creation in zeolite ZSM-5: Influence of NaOH concentration, temperature and treatment duration. Tehnika, 2020, 75, 9-14.	0.0	0

#	ARTICLE	IF	CITATIONS
290	Combination of Pilot Injection and a NH ₃ -SCR System To Reduce NO _x Emissions of a Nonroad Compression Ignition Engine. ACS Omega, 2021, 6, 28871-28879.	1.6	4
291	Renewable Ammonia as an Energy Fuel for Ocean Exploration and Transportation. Marine Technology Society Journal, 2020, 54, 126-136.	0.3	5
292	Rational construction of thermally stable single atom catalysts: From atomic structure to practical applications. Chinese Journal of Catalysis, 2022, 43, 71-91.	6.9	15
293	Electronic structure tailoring of Al ³⁺ - and Ta ⁵⁺ -doped CeO ₂ for the synergistic removal of NO and chlorinated organics. Applied Catalysis B: Environmental, 2022, 304, 120939.	10.8	42
294	Electrochemical Ammonia Synthesis via NO Reduction on 2D-MOF. ChemPhysChem, 2022, 23, .	1.0	16
295	Deoxygenation of Nitrous Oxide and Nitro Compounds Using Bis(N-heterocyclic Silylene)Amido Iron Complexes as Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	17
296	Vanadium-based catalytic fibers for selective reduction of NO by NH ₃ and their potential use on co-processing of dust and NO _x . Chemical Engineering Journal, 2022, 431, 133694.	6.6	8
297	Influence of phosphorus on the NH ₃ -SCR performance of CeO ₂ -TiO ₂ catalyst for NO removal from co-incineration flue gas of domestic waste and municipal sludge. Journal of Colloid and Interface Science, 2022, 610, 463-473.	5.0	38
298	Insight into the Potassium Poisoning Effect for Selective Catalytic Reduction of NO _x with NH ₃ over Fe/Beta. ACS Catalysis, 2021, 11, 14727-14739.	5.5	69
299	Heterogeneous Single Atom Environmental Catalysis: Fundamentals, Applications, and Opportunities. Advanced Functional Materials, 2022, 32, 2108381.	7.8	51
300	Precise regulation of acid pretreatment for red mud SCR catalyst: Targeting on optimizing the acidity and reducibility. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	12
301	Insight Into the CuO _x Interacts with Oxygen Vacancies on the Surface of Black-TiO ₂ for NO Oxidation. Catalysis Letters, 2022, 152, 2869-2879.	1.4	5
302	Review on the selective catalytic reduction of NO with H ₂ by using novel catalysts. Journal of Environmental Chemical Engineering, 2021, 9, 106770.	3.3	21
303	MnO ₂ nanoarray with oxygen vacancies: An efficient catalyst for NO electroreduction to NH ₃ at ambient conditions. Materials Today Physics, 2022, 22, 100586.	2.9	54
304	Deoxygenation of Nitrous Oxide and Nitro Compounds Using Bis(N-heterocyclic Silylene)Amido Iron Complexes as Catalysts. Angewandte Chemie, 0, , .	1.6	2
305	Zeolite-driven Ag species during redox treatments and catalytic implications for SCO of NH ₃ . Journal of Materials Chemistry A, 2021, 9, 27448-27458.	5.2	11
306	Insights into Samarium Doping Effects on Catalytic Activity and SO ₂ Tolerance of MnFeO _x Catalyst for Low-Temperature NH ₃ -SCR Reaction. SSRN Electronic Journal, 0, , .	0.4	0
307	Time-resolved <i>in situ</i> DRIFTS study on NH ₃ -SCR of NO on a CeO ₂ /TiO ₂ catalyst. Catalysis Science and Technology, 2022, 12, 1245-1256.	2.1	43

#	ARTICLE	IF	CITATIONS
308	Enhancing the K-poisoning resistance of CeO ₂ -SnO ₂ catalyst by hydrothermal method for NH ₃ -SCR reaction. Applied Surface Science, 2022, 579, 152176.	3.1	23
309	Constructing TiO ₂ @CeMnO _x nanocages by self-sacrificial hydrolytic etching MIL-125 for efficient wide-temperature selective catalytic reduction of nitrogen oxides. Chemical Engineering Journal, 2022, 432, 134236.	6.6	22
310	Electrothermal alloy embedded V ₂ O ₅ -WO ₃ /TiO ₂ catalyst for NH ₃ -SCR with promising wide operating temperature window. Chemical Engineering Research and Design, 2022, 159, 213-220.	2.7	17
311	One-step calcination synthesis of accordion-like MXene-derived TiO ₂ @C coupled with g-C ₃ N ₄ : Z-scheme heterojunction for enhanced photocatalytic NO removal. Separation and Purification Technology, 2022, 285, 120329.	3.9	18
312	Phosphate on ceria with controlled active sites distribution for wide temperature NH ₃ -SCR. Journal of Hazardous Materials, 2022, 427, 128148.	6.5	22
313	NH ₃ -SCR of NO over M/ZSM-5 (M=Al, Mn, Co, Cu) catalysts: An in-situ DRIFTS study. Surfaces and Interfaces, 2022, 29, 101722.	1.5	14
314	High-performance NH ₃ production via NO electroreduction over a NiO nanosheet array. Chemical Communications, 2021, 57, 13562-13565.	2.2	51
315	Unveiling the Role of High-Valent Copper Cations in the Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperature. SSRN Electronic Journal, 0, .	0.4	0
316	Promoting NO _x Reduction Via CO Oxidation Over CuO Promoted V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts Under Oxygen-Rich Conditions. SSRN Electronic Journal, 0, .	0.4	0
317	The enhanced resistance to Na ⁺ -poisoning of MnCoCrO _x SCR catalyst by acidity regulation: The mechanism of sulfuric acid pretreatment. Molecular Catalysis, 2022, 518, 112084.	1.0	2
318	Cu-Containing Polyoxotitanate Cluster as a Catalyst Precursor for Understanding the Importance of Cu(II)-TiO _x Interface on Selective Catalytic Reduction of NO. Journal of Cluster Science, 2023, 34, 255-260.	1.7	1
319	Multi-stage ammonia production for sorption selective catalytic reduction of NO _x . Frontiers in Energy, 2022, 16, 840-851.	1.2	3
320	Removal of NO by carbon-based catalytic reduction bed loaded with Mn induced by dielectric barrier discharge at low temperature. Environmental Engineering Research, 2023, 28, 210500-0.	1.5	1
321	Operation principles for hydrogen spark ignited direct injection engines for passenger car applications. International Journal of Hydrogen Energy, 2022, 47, 5638-5649.	3.8	30
322	Insights into the effect of flue gas on synergistic elimination of toluene and NO over V ₂ O ₅ -MoO ₃ (WO ₃)/TiO ₂ catalysts. Chemical Engineering Journal, 2022, 435, 134914.	6.6	26
323	Encapsulation of ultra-small Cu-Fe into ZSM-5 zeolites for NH ₃ -SCR with broad reaction-temperature ranges. Microporous and Mesoporous Materials, 2022, 331, 111675.	2.2	21
324	Recent advances and perspectives in the resistance of SO ₂ and H ₂ O of cerium-based catalysts for NO _x selective catalytic reduction with ammonia. New Journal of Chemistry, 2022, 46, 2053-2067.	1.4	9
325	CeO ₂ doping boosted low-temperature NH ₃ -SCR activity of FeTiO _x catalyst: A microstructure analysis and reaction mechanistic study. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	5

#	ARTICLE	IF	CITATIONS
326	Bi nanodendrites for highly efficient electrocatalytic NO reduction to NH ₃ at ambient conditions. <i>Materials Today Physics</i> , 2022, 22, 100611.	2.9	36
327	Tailor the crystal planes of MIL-101(Fe) derivatives to enhance the activity of SCR reaction at medium and low temperature. <i>Journal of Colloid and Interface Science</i> , 2022, 615, 432-444.	5.0	7
328	N ₂ O Hydrogenation on Silver Doped Gold Catalysts, a DFT Study. <i>Nanomaterials</i> , 2022, 12, 394.	1.9	0
329	Enhanced activity and sulfur resistance of Cu- and Fe-modified activated carbon for the reduction of NO by CO from regeneration gas. <i>Catalysis Science and Technology</i> , 2022, 12, 737-749.	2.1	5
330	Understanding the role of redox properties and NO adsorption over MnFeO ₃ for NH ₃ -SCR. <i>Catalysis Science and Technology</i> , 2022, 12, 2030-2041.	2.1	16
331	Structure-activity relationship and the inhibitory effect of sulfur dioxide and water on nitrous oxide formation in selective catalytic reduction of nitrogen oxides by ammonia over hollow Co ₃ O ₄ @CoMn ₂ O ₄ catalyst. <i>Journal of Colloid and Interface Science</i> , 2022, 616, 55-66.	5.0	8
332	Effects of MoO ₃ on dispersion of vanadia and low-temperature NH ₃ -SCR activity of titania supported catalysts: Liquid acidity and steric hindrance. <i>Applied Surface Science</i> , 2022, 585, 152710.	3.1	7
333	Understanding the dual-acting of iron and sulfur dioxide over Mn-Fe/AC catalysts for low-temperature SCR of NO. <i>Molecular Catalysis</i> , 2022, 519, 112150.	1.0	14
334	Selective Catalytic Reduction of NO _x by Methanol on Metal-Free Zeolite with Brønsted and Lewis Acid Pair. <i>ACS Catalysis</i> , 2022, 12, 2403-2414.	5.5	10
335	One-pot synthesis, characterization and ammonia-selective catalytic reduction performance of MnSAPO-18 molecular sieves. <i>Journal of Cleaner Production</i> , 2022, 336, 130163.	4.6	9
336	Efficient NO _x Abatement over Alkali-Resistant Catalysts via Constructing Durable Dimeric VO _x Species. <i>Environmental Science & Technology</i> , 2022, 56, 2647-2655.	4.6	35
337	Promotional effect of phosphorus addition on improving the SO ₂ resistance of V ₂ O ₅ -MoO ₃ /TiO ₂ catalyst for NH ₃ -SCR of NO. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 163, 110566.	1.9	19
338	Superior catalytic performance within H ₂ O-vapor of W-modified CoMn ₂ O ₄ /TiO ₂ catalyst for selective catalytic reduction of NO _x with NH ₃ . <i>Chemical Engineering Journal</i> , 2022, 434, 134770.	6.6	25
339	Structural control for inhibiting SO ₂ adsorption in porous MnCe nanowire aerogel catalysts for low-temperature NH ₃ -SCR. <i>Chemical Engineering Journal</i> , 2022, 434, 134729.	6.6	33
340	Promoting effect of Co-doped CeO ₂ nanorods activity and SO ₂ resistance for Hg ₀ removal. <i>Fuel</i> , 2022, 317, 123320.	3.4	26
341	The effect of non-redox promoters (AlO _x , PO _x , SiO _x and ZrO _x) and surface sulfates on supported V ₂ O ₅ -WO ₃ /TiO ₂ catalysts in selective catalytic reduction of NO with NH ₃ . <i>Applied Catalysis B: Environmental</i> , 2022, 306, 121128.	10.8	3
342	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
343	ä½Žæ©NH ₃ -SCRè,±ç¡¸,ãCE-ã%o,æŒ-SO ₂ ä,æ”æ€Œf1/2ç”ç©¶è;ã±. <i>Scientia Sinica Chimica</i> , 2022, , .	0.2	0

#	ARTICLE	IF	CITATIONS
344	Efficient nitric oxide electroreduction toward ambient ammonia synthesis catalyzed by a CoP nanoarray. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1366-1372.	3.0	58
345	Redistributing Cu species in Cu-SSZ-13 zeolite as NH ₃ -SCR catalyst via a simple ion-exchange. <i>Chinese Journal of Chemical Engineering</i> , 2022, 41, 329-341.	1.7	15
346	Fabrication of carbon doped Cu-based oxides as superior NH ₃ -SCR catalysts via employing sodium dodecyl sulfonate intercalating CuMgAl-LDH. <i>Journal of Catalysis</i> , 2022, 407, 265-280.	3.1	30
347	Insight into the remarkable enhancement of NH ₃ -SCR performance of Ce-Sn oxide catalyst by tungsten modification. <i>Catalysis Today</i> , 2023, 410, 36-44.	2.2	10
348	Recent progress of low-temperature selective catalytic reduction of NO _x with NH ₃ over manganese oxide-based catalysts. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 6363-6382.	1.3	19
349	Revealing The Promotional Effect of Ce Doping on the Low-Temperature Activity And SO ₂ Tolerance Of Ce/FeVO ₄ Catalysts in NH ₃ -Scr. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
350	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
351	Mechanistic insights into the photocatalytic reduction of nitric oxide to nitrogen on oxygen-deficient quasi-two-dimensional bismuth-based perovskites. <i>Environmental Science: Nano</i> , 2022, 9, 1453-1465.	2.2	11
352	Insights into Samarium Doping Effects on Catalytic Activity and SO ₂ Tolerance of MnFeOx Catalyst for Low-Temperature NH ₃ -Scr Reaction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
353	Amorphous FeOx-MnO _{1.0y} 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
354	Coupling denitrification and ammonia synthesis <i>via</i> selective electrochemical reduction of nitric oxide over Fe ₂ O ₃ nanorods. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6454-6462.	5.2	52
355	Like Cures like: Detoxification Effect between Alkali Metals and Sulfur over the V ₂ O ₅ /TiO ₂ deNO _x Catalyst. <i>Environmental Science & Technology</i> , 2022, 56, 3739-3747.	4.6	38
356	Selective catalytic reduction of NO by NH ₃ over V ₂ O 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
357	Key Properties and Parameters of Pd/CeO ₂ Passive NO _x Adsorbers. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3329-3341.	1.8	3
358	Synergistic Catalytic Elimination of NO _x and Chlorinated Organics: Cooperation of Acid Sites. <i>Environmental Science & Technology</i> , 2022, 56, 3719-3728.	4.6	41
359	Enhancing the Selective Catalytic Reduction of NO _x at Low Temperature by Pretreatment of Hydrocarbons in a Gliding Arc Plasma. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 3365-3373.	1.8	7
360	Dynamic Change of Active Sites of Supported Vanadia Catalysts for Selective Catalytic Reduction of Nitrogen Oxides. <i>Environmental Science & Technology</i> , 2022, 56, 3710-3718.	4.6	21
361	Impact of Biodiesel-Based Phosphorus and Sulfur on Copper Speciation of Cu-SSZ-13 Catalysts: XAFS Scanning during H ₂ -TPR. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3385-3396.	1.5	7

#	ARTICLE	IF	CITATIONS
362	FeP nanorod array: A high-efficiency catalyst for electroreduction of NO to NH ₃ under ambient conditions. <i>Nano Research</i> , 2022, 15, 4008-4013.	5.8	61
363	Unraveling the Promotion Effects of Dynamically Constructed CuO _x -OH Interfacial Sites in the Selective Catalytic Oxidation of Ammonia. <i>ACS Catalysis</i> , 2022, 12, 3955-3964.	5.5	28
364	Bi nanoparticles/carbon nanosheet composite: A high-efficiency electrocatalyst for NO reduction to NH ₃ . <i>Nano Research</i> , 2022, 15, 5032-5037.	5.8	32
365	Pollution to solution: A universal electrocatalyst for reduction of all NO _x -based species to NH ₃ . <i>Chem Catalysis</i> , 2022, 2, 622-638.	2.9	27
366	Determining hydrothermal deactivation mechanisms on Cu/SAPO-34 NH ₃ -SCR catalysts at low- and high-reaction regions: establishing roles of different reaction sites. <i>Rare Metals</i> , 2022, 41, 1899-1910.	3.6	18
367	Breaking the Activity–Selectivity Trade-Off for Simultaneous Catalytic Elimination of Nitric Oxide and Chlorobenzene via FeVO ₄ –Fe ₂ O ₃ Interfacial Charge Transfer. <i>ACS Catalysis</i> , 2022, 12, 3797-3806.	5.5	43
368	Fabrication of wide temperature Fe _x Ce _{1-x} VO ₄ modified TiO ₂ -graphene catalyst with excellent NH ₃ -SCR performance and strong SO ₂ /H ₂ O tolerance. <i>Environmental Science and Pollution Research</i> , 2022, 29, 53259-53268.	2.7	4
369	Designing Sites in Heterogeneous Catalysis: Are We Reaching Selectivities Competitive With Those of Homogeneous Catalysts?. <i>Chemical Reviews</i> , 2022, 122, 8594-8757.	23.0	118
370	Amorphous Boron Carbide on Titanium Dioxide Nanobelt Arrays for High-Efficiency Electrocatalytic NO Reduction to NH ₃ . <i>Angewandte Chemie</i> , 0, , .	1.6	6
371	Investigation of RuO _x doping stimulated the high catalytic activity of CeO _x -MnO _x /TiO ₂ catalysts in the NH ₃ -SCR reaction: Structure-activity relationship and reaction mechanism. <i>Journal of Alloys and Compounds</i> , 2022, 910, 164814.	2.8	9
372	Interaction Mechanism for Simultaneous Elimination of Nitrogen Oxides and Toluene over the Bifunctional CeO ₂ –TiO ₂ Mixed Oxide Catalyst. <i>Environmental Science & Technology</i> , 2022, 56, 4467-4476.	4.6	47
373	Efficient Electron Transfer by Plasmonic Silver in SrTiO ₃ for Low-Concentration Photocatalytic NO Oxidation. <i>Environmental Science & Technology</i> , 2022, 56, 3604-3612.	4.6	29
374	Self-Defense Effects of Ti-Modified Attapulgite for Alkali-Resistant NO _x Catalytic Reduction. <i>Environmental Science & Technology</i> , 2022, 56, 4386-4395.	4.6	35
375	Perspectives in Adsorptive and Catalytic Mitigations of NO _x Using Metal–Organic Frameworks. <i>Energy & Fuels</i> , 2022, 36, 3347-3371.	2.5	13
376	Amorphous Boron Carbide on Titanium Dioxide Nanobelt Arrays for High-Efficiency Electrocatalytic NO Reduction to NH ₃ . <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	121
377	Unravelling the functional complexity of oxygen-containing groups on carbon for the reduction of NO with NH ₃ . <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104261.	2.7	4
378	Co-doped MnCeO _x /ZrO ₂ catalysts for low temperature selective catalytic reduction of NO. <i>Research on Chemical Intermediates</i> , 2022, 48, 2627-2640.	1.3	2
379	Alkali and Heavy Metal Copoisoning Resistant Catalytic Reduction of NO _x via Liberating Lewis Acid Sites. <i>Environmental Science & Technology</i> , 2022, 56, 5141-5149.	4.6	31

#	ARTICLE	IF	CITATIONS
380	SO ₂ - and H ₂ O-Tolerant Catalytic Reduction of NO _x at a Low Temperature via Engineering Polymeric VO _x Species by CeO ₂ . Environmental Science & Technology, 2022, 56, 5170-5178.	4.6	45
381	The influencing mechanism of NH ₃ and NO _x addition on the catalytic oxidation of toluene over Mn ₂ Cu ₁ Al ₁ O _x catalyst. Journal of Cleaner Production, 2022, 348, 131152.	4.6	16
382	Single-atom Ir ₁ supported on rutile TiO ₂ for excellent selective catalytic oxidation of ammonia. Journal of Hazardous Materials, 2022, 432, 128670.	6.5	19
383	Unveiling the role of high-valent copper cations in the selective catalytic reduction of NO _x with NH ₃ at low temperature. Fuel, 2022, 318, 123607.	3.4	6
384	Revealing the promotional effect of Ce doping on the low-temperature activity and SO ₂ tolerance of Ce/FeVO ₄ catalysts in NH ₃ -SCR. Journal of Environmental Chemical Engineering, 2022, 10, 107588.	3.3	8
385	Cu- and Ce-promoted nano-heterostructures on vanadate catalysts for low-temperature NH ₃ -SCR activity with improved SO ₂ and water resistance. Chemical Engineering Journal, 2022, 437, 135427.	6.6	35
386	The effects of Mn-based catalysts on the selective catalytic reduction of NO _x with NH ₃ at low temperature: A review. Fuel Processing Technology, 2022, 230, 107213.	3.7	85
387	High-efficiency NO electroreduction to NH ₃ over honeycomb carbon nanofiber at ambient conditions. Journal of Colloid and Interface Science, 2022, 616, 261-267.	5.0	26
388	Effects of IrO ₂ nanoparticle sizes on Ir/Al ₂ O ₃ catalysts for the selective catalytic oxidation of ammonia. Chemical Engineering Journal, 2022, 437, 135398.	6.6	14
389	Na co-cations promoted stability and activity of Pd/SSZ-13 for low-temperature NO adsorption. Applied Catalysis B: Environmental, 2022, 309, 121266.	10.8	13
390	Insights into co-doping effect of Sm and Fe on anti-Pb poisoning of Mn-Ce/AC catalyst for low-temperature SCR of NO with NH ₃ . Fuel, 2022, 319, 123763.	3.4	70
391	Insights into samarium doping effects on catalytic activity and SO ₂ tolerance of MnFeO catalyst for low-temperature NH ₃ -SCR reaction. Fuel, 2022, 321, 124113.	3.4	85
392	Low-temperature NO _x reduction over hydrothermally stable SCR catalysts by engineering low-coordinated Mn active sites. Chemical Engineering Journal, 2022, 442, 136182.	6.6	27
393	Modulation of photocatalytic activity of SrBi ₂ Ta ₂ O ₉ nanosheets in NO removal by tuning facets exposure. Journal of Materials Science and Technology, 2022, 122, 91-100.	5.6	12
394	Converting Poisonous Sulfate Species to an Active Promoter on TiO ₂ Predecorated MnO _x Catalysts for the NH ₃ -SCR Reaction. ACS Applied Materials & Interfaces, 2021, 13, 61237-61247.	4.0	16
395	Advances in emission control of diesel vehicles in China. Journal of Environmental Sciences, 2023, 123, 15-29.	3.2	30
396	SO ₂ -Induced Alkali Resistance of FeVO ₄ /TiO ₂ Catalysts for NO _x Reduction. Environmental Science & Technology, 2022, 56, 605-613.	4.6	47
397	Recent Breakthroughs and Advancements in NO _x and SO _x Reduction Using Nanomaterials-Based Technologies: A State-of-the-Art Review. Nanomaterials, 2021, 11, 3301.	1.9	6

#	ARTICLE	IF	CITATIONS
398	SO ₂ -Tolerant catalytic reduction of NO _x by confining active species in TiO ₂ nanotubes. <i>Environmental Science: Nano</i> , 2022, 9, 2121-2133.	2.2	8
399	A Bifunctional Multishell Catalyst with a Wide Operating Temperature Window for NO _x Abatement by Ammonia-Selective Catalytic Reduction. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5410-5418.	1.8	3
400	Effect of acidic components (SO ₂ - and WO ₃) on the surface acidity, redox ability and NH ₃ -SCR activity of new CeO ₂ -TiO ₂ nanoporous aerogel catalysts: A comparative study. <i>Inorganic Chemistry Communication</i> , 2022, 140, 109494.	1.8	12
401	Rationally engineered ReO ₃ -CuSO ₄ /TiO ₂ catalyst with superior NH ₃ -SCO efficiency and remarkably boosted SO ₂ tolerance: Synergy of acid sites and surface adsorbed oxygen. <i>Chemical Engineering Journal</i> , 2022, 442, 136356.	6.6	26
402	SO ₂ -Tolerant Catalytic Reduction of NO _x via Tailoring Electron Transfer between Surface Iron Sulfate and Subsurface Ceria. <i>Environmental Science & Technology</i> , 2022, 56, 5840-5848.	4.6	48
403	Rational design of porous Ce _{1-x} Nb _x oxide hollow nanospheres as a novel NH ₃ -SCR catalyst. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12269-12277.	5.2	10
404	Enhanced hydrothermal stability and SO ₂ -tolerance of Cu ²⁺ /Fe modified AEI zeolite catalysts in NH ₃ -SCR of NO _x . <i>Catalysis Science and Technology</i> , 2022, 12, 3898-3911.	2.1	14
405	The Promoting Mechanism of CE on the Hydrothermal Stability of Fe-Beta Catalyst for Nh3-Scr Reaction. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
406	Insight on the anti-poisoning mechanism of <i>in situ</i> coupled sulfate over iron oxide catalysts in NO _x reduction. <i>Catalysis Science and Technology</i> , 2022, 12, 4020-4031.	2.1	6
407	Improvement of So2 Resistance of Cu-Ssz-13 with Heteropoly Compounds in Selective Catalytic Reduction of No. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
408	Low-Temperature NH ₃ -SCR on Cex-Mn-Tiy Mixed Oxide Catalysts: Improved Performance by the Mutual Effect between Ce and Ti. <i>Catalysts</i> , 2022, 12, 471.	1.6	4
409	NO _x Reduction over Smart Catalysts with Self-Created Targeted Antipoisoning Sites. <i>Environmental Science & Technology</i> , 2022, 56, 6668-6677.	4.6	31
410	A theoretical descriptor for screening efficient NO reduction electrocatalysts from transition-metal atoms on N-doped BP monolayer. <i>Journal of Colloid and Interface Science</i> , 2022, 623, 432-444.	5.0	36
411	Structure-resolved CFD simulations to guide catalyst packing of selective NO reduction. <i>Chemical Engineering Journal</i> , 2022, 446, 136888.	6.6	7
412	Role of V and W Sites in V ₂ O ₅ /WO ₃ /TiO ₂ Catalysts and Effect of Formaldehyde during NH ₃ -SCR of NO _x . <i>ChemCatChem</i> , 0, , .	1.8	1
413	Application and Development of Selective Catalytic Reduction Technology for Marine Low-Speed Diesel Engine: Trade-Off among High Sulfur Fuel, High Thermal Efficiency, and Low Pollution Emission. <i>Atmosphere</i> , 2022, 13, 731.	1.0	39
414	Abatement of Nitrogen Oxides via Selective Catalytic Reduction over Ce _{1-x} W _x Atom-Pair Sites. <i>Environmental Science & Technology</i> , 2022, 56, 6631-6638.	4.6	17
415	Poisoning of Mn-Ce/AC catalysts for low-temperature NH ₃ -SCR of NO by K ⁺ and its counter-ions (Cl ⁻ /NO ₃ ⁻ /SO ₄ ²⁻). <i>Applied Catalysis A: General</i> , 2022, 638, 118636.	2.2	11

#	ARTICLE	IF	CITATIONS
416	Enhancing Electrocatalytic NO Reduction to NH ₃ by the CoS Nanosheet with Sulfur Vacancies. <i>Inorganic Chemistry</i> , 2022, 61, 8096-8102.	1.9	26
417	New insight on N ₂ O formation over MnOx/TiO ₂ catalysts for selective catalytic reduction of NO _x with NH ₃ . <i>Molecular Catalysis</i> , 2022, 525, 112356.	1.0	3
418	The promoting mechanism of Ce on the hydrothermal stability of Fe-Beta catalyst for NH ₃ -SCR reaction. <i>Microporous and Mesoporous Materials</i> , 2022, 338, 111937.	2.2	8
419	Cerium manganese oxides coupled with ZSM-5: A novel SCR catalyst with superior K resistance. <i>Chemical Engineering Journal</i> , 2022, 445, 136530.	6.6	20
420	Promoting NH ₃ -SCR denitration via CO oxidation over CuO promoted V ₂ O ₅ -WO ₃ /TiO ₂ catalysts under oxygen-rich conditions. <i>Fuel</i> , 2022, 323, 124357.	3.4	18
421	High N ₂ selectivity of Pt-V-W/TiO ₂ oxidation catalyst for simultaneous control of NH ₃ and CO emissions. <i>Chemical Engineering Journal</i> , 2022, 444, 136517.	6.6	16
422	Deactivation of Pd/SSZ-13 passive NO _x adsorber from the perspectives of phosphorus poisoning and hydrothermal aging. <i>Chemical Engineering Journal</i> , 2022, 446, 136779.	6.6	6
423	Insights to sulfur-resistant mechanisms of reduced graphene oxide supported MnOx-CeO _y catalysts for low-temperature NH ₃ -SCR. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110782.	1.9	12
424	<i>In situ</i> reconstruction enhanced dual-site catalysis towards nitrate electroreduction to ammonia. <i>Journal of Materials Chemistry A</i> , 2022, 10, 12669-12678.	5.2	20
425	Promotional effect of Fe and Ce co-doping on a V ₂ O ₅ /WO ₃ /TiO ₂ catalyst for SCR of NO _x with high K and Pb resistance. <i>Catalysis Science and Technology</i> , 2022, 12, 4169-4180.	2.1	17
426	Design of nitrogen oxide detection system based on non-dispersive infrared technology. <i>Optik</i> , 2022, 262, 169351.	1.4	3
427	Effect of H ₂ SO ₄ pretreatment on alkali-resistance performance of FeZrCeTiO/TNT catalyst for NH ₃ -SCR reaction. <i>Applied Surface Science</i> , 2022, 598, 153774.	3.1	6
428	Alkali Metal Poisoning and Regeneration of Selective Catalytic Reduction Denitration Catalysts: Recent Advances and Future Perspectives. <i>Energy & Fuels</i> , 2022, 36, 5622-5646.	2.5	33
429	Unveiling remarkable resistance to Pb poisoning over an Fe-Mo catalyst for low-temperature NH ₃ -SCR: poison transforms into a promoter. <i>Catalysis Science and Technology</i> , 2022, 12, 4388-4400.	2.1	11
430	Low-Temperature NH ₃ -Scr of No Over Robust Ru/Al-Sba-15 Catalysts: Effect of Ru Loading. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
431	Electroreduction NO to NH ₃ over single metal atom anchored on pyrrole type defective graphene: A DFT study. <i>Chinese Chemical Letters</i> , 2023, 34, 107567.	4.8	6
432	Cytotoxicity, redox and immune status in African catfish, <i>Clarias gariepinus</i> (Burchell, 1822) exposed to bisphenol A (BPA) and its analogues. <i>Environmental Science and Pollution Research</i> , 2022, 29, 74185-74196.	2.7	7
433	Unraveling the structure and role of Mn and Ce for NO _x reduction in application-relevant catalysts. <i>Nature Communications</i> , 2022, 13, .	5.8	39

#	ARTICLE	IF	CITATIONS
434	Effect of La/Ce modification over Cu based Y zeolite catalysts on high temperature selectivity for selective catalytic reduction with ammonia. Journal of Cleaner Production, 2022, 362, 132255.	4.6	7
435	Effect of MnOx/Î±-Fe2O3 Prepared from Goethite on Selective Catalytic Reduction of NO with NH3. Journal of Chemistry, 2022, 2022, 1-13.	0.9	4
436	Fabrication of wide temperature lanthanum and cerium doped Cu/TNU-9 catalyst with excellent NH3-SCR performance and outstanding SO2+H2O tolerance. Journal of Rare Earths, 2023, 41, 1195-1202.	2.5	6
437	Elucidation of the reaction mechanism of indirect oxidative carbonylation of methanol to dimethyl carbonate on Pd/NaY catalyst: Direct identification of reaction intermediates. Journal of Catalysis, 2022, 412, 30-41.	3.1	16
438	Recent advances in NO reduction with CO over copper-based catalysts: reaction mechanisms, optimization strategies, and anti-inactivation measures. Chemical Engineering Journal, 2022, 450, 137374.	6.6	11
439	Influence of Urea Uneven Injection on the Performances of a Diesel Engine. Fluid Dynamics and Materials Processing, 2022, .	0.5	0
440	Promotion Effect of Fe Species on SO ₂ Resistance of Cu-SSZ-13 Catalysts for NO _x Reduction by NH ₃ . Industrial & Engineering Chemistry Research, 2022, 61, 8698-8707.	1.8	8
441	Single-Atom Ce-Modified Î±-Fe ₂ O ₃ for Selective Catalytic Reduction of NO with NH ₃ . Environmental Science & Technology, 2022, 56, 10442-10453.	4.6	52
442	Ultralow-Temperature NO _x Reduction over SmMn ₂ O ₅ Mullite Catalysts Via Modulating the Superficial Dual-Functional Active Sites. ACS Catalysis, 2022, 12, 7622-7632.	5.5	39
443	Structure-Directing Role of Support on Hg ⁰ Oxidation over V ₂ O ₅ /TiO ₂ Catalyst Revealed for NO _x and Hg ⁰ Simultaneous Control in an SCR Reactor. Environmental Science & Technology, 2022, 56, 9702-9711.	4.6	20
444	Hydrothermal Aging Treatment Activates V ₂ O ₅ /TiO ₂ Catalysts for NO _x Abatement. Environmental Science & Technology, 2022, 56, 9744-9750.	4.6	23
445	Revealing the Promotion Effects of Nb on Alkali Resistance of FeVO ₄ /TiO ₂ Catalysts for NO _x Reduction. ChemCatChem, 2022, 14, .	1.8	2
446	Revealing M (M = Cu, Co and Zr) oxides doping effects on anti-PbCl ₂ poisoning over Mn-Ce/AC catalysts in low-temperature NH ₃ -SCR reaction. Applied Catalysis A: General, 2022, 643, 118749.	2.2	18
447	Ordered Mesoporous MnAlOx Oxides Dominated by Calcination Temperature for the Selective Catalytic Reduction of NOx with NH3 at Low Temperature. Catalysts, 2022, 12, 637.	1.6	2
448	Recent advances for Zn-gas batteries beyond Zn-air/oxygen battery. Chinese Chemical Letters, 2023, 34, 107600.	4.8	8
449	Recent advances in catalytic filters for integrated removal of dust and NO from flue gas: fundamentals and applications. , 2022, , .		0
450	Low-Temperature Combustion of Toluene over Cu-Doped SmMn ₂ O ₅ Mullite Catalysts via Creating Highly Active Cu ²⁺ “Oâ€“Mn ⁴⁺ Sites. Environmental Science & Technology, 2022, 56, 10433-10441.	4.6	40
451	Improving NH ₃ -SCR denitrification performance over WaCo0.4TiOx catalysts: Effect of surface acidity due to W addition on low-temperature and high-temperature activity. Applied Catalysis A: General, 2022, 643, 118705.	2.2	6

#	ARTICLE	IF	CITATIONS
452	Zero-waste strategy by means of valorization of bread waste. <i>Journal of Cleaner Production</i> , 2022, 365, 132795.	4.6	16
453	H3pw12o40-Modified Mnox: Efficient Catalyst for Nh3-Scr of Nox. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
454	Functionalized membranes for multipollutants bearing air treatment. , 2022, , 167-200.		0
455	Engineering yolka€shell MnFe@CeO_{<i>x</i>}@TiO_{<i>x</i>} nanocages as a highly efficient catalyst for selective catalytic reduction of NO with NH₃ at low temperatures. <i>Nanoscale</i> , 2022, 14, 12281-12296.	2.8	13
456	Cu-VWT Catalysts for Synergistic Elimination of NO_{<i>x</i>} and Volatile Organic Compounds from Coal-Fired Flue Gas. <i>Environmental Science & Technology</i> , 2022, 56, 10095-10104.	4.6	15
457	Inspecting Promotive Functions of Antimony Oxides for NH3-Assisted Selective Catalytic NOX Reduction. <i>Ceramist</i> , 2022, 25, 159-171.	0.0	0
458	Lotus leavesâ€derived <scp>MnO_{<i>x</i>}</scp>/biochar as an efficient catalyst for lowâ€temperature <scp>NH₃</scp>â€SCR</scp> removal of <scp>NO_{<i>x</i>}</scp>: effects of modification methods of biochar. <i>Journal of Chemical Technology and Biotechnology</i> , 2022, 97, 3100-3110.	1.6	10
459	In situ deposition of 0D CeO2 quantum dots on Fe2O3-containing solid waste NH3-SCR catalyst: Enhancing redox and NH3 adsorption ability. <i>Waste Management</i> , 2022, 149, 323-332.	3.7	17
460	Ce(SO4)2/Î±-Fe2O3 selective catalytic reduction of NOx with NH3: preparation, characterization, and performance. <i>Environmental Science and Pollution Research</i> , 2022, 29, 84421-84433.	2.7	7
461	Fe-promoted V/W/TiO2 catalysts for enhanced low-temperature denitrification efficiency. <i>Applied Surface Science</i> , 2022, 601, 154290.	3.1	7
462	Physicochemical Features and NH3-SCR Catalytic Performance of Natural Zeolite Modified with Ironâ€The Effect of Fe Loading. <i>Catalysts</i> , 2022, 12, 731.	1.6	5
463	Calcium poisoning mechanism on the selective catalytic reduction of NOx by ammonia over the Î³-Fe2O3 (001) surface. <i>Environmental Science and Pollution Research</i> , 2022, 29, 88256-88268.	2.7	4
464	Tungsten Oxide Modified V2O5-Sb2O3/TiO2 Monolithic Catalyst: NH3-SCR Activity and Sulfur Resistance. <i>Processes</i> , 2022, 10, 1333.	1.3	0
465	The effect of CNTs on V-Ce/TiO2 for low-temperature selective catalytic reduction of NO. <i>Korean Journal of Chemical Engineering</i> , 2022, 39, 2334-2344.	1.2	6
466	Unveiling Secondary-Ion-Promoted Catalytic Properties of Cu-SSZ-13 Zeolites for Selective Catalytic Reduction of NO<i>x</i>. <i>Journal of the American Chemical Society</i> , 2022, 144, 12816-12824.	6.6	51
467	Porous washcoat structure in CeO₂ modified Cuâ€SSZâ€13 monolith catalyst for NH₃â€SCR with improved catalytic performance. <i>AIChE Journal</i> , 2022, 68, .	1.8	7
468	Low-temperature NH3-SCR of NO over robust RuNi/Al-SBA-15 catalysts: Effect of Ru loading. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108288.	3.3	15
469	Computational Screening and Synthesis of M (M = Mo and Cu)-Doped CeO₂/silicalite-1 for Medium-/Low-Temperature NH₃â€SCR. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10091-10105.	1.8	8

#	ARTICLE	IF	CITATIONS
470	Selective catalytic reduction of NO _x with NH ₃ over a novel MOF- derived MnO _x catalyst. Applied Catalysis A: General, 2022, 643, 118754.	2.2	18
471	Surface insights into MnO _x -based catalysts containing metal oxides for the selective catalytic reduction of NO _x with NH ₃ . Applied Catalysis A: General, 2022, 643, 118770.	2.2	10
472	Promoting H ₂ O/SO ₂ resistance of Ce-Mn/TiO ₂ nanostructures by Sb ⁵⁺ /Sb ³⁺ addition for Selective catalytic reduction of NO with NH ₃ . Applied Surface Science, 2022, 600, 154146.	3.1	14
473	Dramatically promoted toluene destruction over Mn@Na-Al ₂ O ₃ @Al monolithic catalysts by Ce incorporation: Oxygen vacancy construction and reaction mechanism. Fuel, 2022, 326, 125051.	3.4	47
474	Superior indicative and regulative function of Fe doping amount for MnO ₂ catalyst with an oxygen vacancy in NH ₃ -SCR reaction: A DFT+ÅU study. Applied Surface Science, 2022, 601, 154162.	3.1	7
475	Red mud-based catalysts for the catalytic removal of typical air pollutants: A review. Journal of Environmental Sciences, 2023, 127, 628-640.	3.2	30
476	Ternary MnCoVO catalysts with remarkable deNO performance: Dual acid-redox sites control strategy. Applied Catalysis B: Environmental, 2022, 318, 121779.	10.8	20
477	Design of robust Co-doped Mn ₃ O ₄ spinel catalysts for selective catalytic reduction of NO with NH ₃ at low temperatures. Applied Surface Science, 2022, 602, 154384.	3.1	6
478	Comparative study on potassium poisoning of Cu-CHA catalysts for NH ₃ -SCR: Stability and transformation of Cu ²⁺ ions. Journal of Environmental Chemical Engineering, 2022, 10, 108305.	3.3	3
479	The promoting/inhibiting effect of water vapor on the selective catalytic reduction of NO _x . Journal of Hazardous Materials, 2022, 439, 129665.	6.5	23
480	Poly(heptazine imide) with Enlarged Interlayers Spacing for Efficient Photocatalytic NO Decomposition. Applied Catalysis B: Environmental, 2022, 317, 121719.	10.8	13
481	CeO ₂ Nanoparticle-Loaded MnO ₂ Nanoflowers for Selective Catalytic Reduction of NO _x with NH ₃ at Low Temperatures. Molecules, 2022, 27, 4863.	1.7	5
482	Boosting SO ₂ -Resistant NO _x Reduction by Modulating Electronic Interaction of Short-Range Fe-O Coordination over Fe ₂ O ₃ /TiO ₂ Catalysts. Environmental Science & Technology, 2022, 56, 11646-11656.	4.6	25
483	Electrochemical Reduction of Nitric Oxide with 1.7% Solar-to-Ammonia Efficiency Over Nanostructured Core-shell Catalyst at Low Overpotentials. Advanced Science, 2022, 9, .	5.6	16
484	Bimetallic Ag-based catalysts for low-temperature SCR: Quo vadis?. Applied Catalysis A: General, 2022, 644, 118815.	2.2	3
485	Doping effect of rare earth metal ions Sm ³⁺ , Nd ³⁺ and Ce ⁴⁺ on denitration performance of MnO catalyst in low temperature NH ₃ -SCR reaction. Journal of Rare Earths, 2023, 41, 1323-1335.	2.5	9
486	Strikingly distinctive NH ₃ -SCR behavior over Cu-SSZ-13 in the presence of NO ₂ . Nature Communications, 2022, 13, .	5.8	34
487	Investigation on the redox/acidic features of bimetallic MOF-derived CeMO _x catalysts for low-temperature NH ₃ -SCR of NO _x . Applied Catalysis A: General, 2022, 643, 118796.	2.2	15

#	ARTICLE	IF	CITATIONS
488	Promotion effect of bulk sulfates over CeO ₂ for selective catalytic reduction of NO by NH ₃ at high temperatures. Chinese Chemical Letters, 2023, 34, 107769.	4.8	5
489	High-performance Fe-Cu composite oxide for selective catalytic reduction of NO with NH ₃ : Driving of Cu on Fe_2O_3 . Journal of Environmental Chemical Engineering, 2022, 10, 108481.	3.3	4
490	Dual single-atom Ce-Ti/MnO ₂ catalyst enhances low-temperature NH ₃ -SCR performance with high H ₂ O and SO ₂ resistance. Nano Research, 2023, 16, 299-308.	5.8	13
491	Formic Acid-Mediated Regeneration Strategy for As-Poisoned V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts with Lossless Catalytic Activity and Simultaneous As Recycling. Environmental Science & Technology, 2022, 56, 12625-12634.	4.6	6
492	ZnO with Controllable Oxygen Vacancies for Photocatalytic Nitrogen Oxide Removal. ACS Catalysis, 2022, 12, 10004-10017.	5.5	45
493	Unique Compensation Effects of Heavy Metals and Phosphorus Copoisoning over NO _x Reduction Catalysts. Environmental Science & Technology, 2022, 56, 12553-12562.	4.6	17
494	Constructing n-type doped perovskite from Ti-bearing solid waste to boost the NO-to-NO ₂ oxidation. Journal of Cleaner Production, 2022, 372, 133553.	4.6	3
495	Large eddy simulation of hydrodynamics and deNO _x process in a coal-fired power plant SCR system. Journal of Environmental Management, 2022, 320, 115800.	3.8	5
496	A review of the advances in catalyst modification using nonthermal plasma: Process, Mechanism and Applications. Advances in Colloid and Interface Science, 2022, 308, 102755.	7.0	23
497	Single-atom site catalysts for environmental remediation: Recent advances. Journal of Hazardous Materials, 2022, 440, 129772.	6.5	30
498	Implication of operation time on low-temperature catalytic oxidation of chloroaromatic organics over VO _x /TiO ₂ catalysts: Deactivation mechanism analysis. Journal of Cleaner Production, 2022, 372, 133477.	4.6	3
499	Iron removal and titanium dioxide support recovery from spent V ₂ O ₅ -WO ₃ /TiO ₂ catalyst. Separation and Purification Technology, 2022, 301, 121934.	3.9	13
500	Improved alkali-tolerance of FeO _x -WO ₃ catalyst for NO removal via in situ reserving FeO _x active species. Separation and Purification Technology, 2022, 300, 121824.	3.9	14
501	Tailoring the crystal structure of CaTiO ₃ by multielement doping for photo-assisted activation of NO. Chemical Engineering Journal, 2022, 450, 138255.	6.6	5
502	Interface Engineering of a Bifunctional Cu-SSZ-13@CZO Core-Shell Catalyst for Boosting Potassium Ion and SO ₂ Tolerance. ACS Catalysis, 2022, 12, 11281-11293.	5.5	49
503	Influence of CeO ₂ and WO ₃ Addition to Impregnated V ₂ O ₅ /TiO ₂ Catalysts on the Selective Catalytic Reduction of NO _x with NH ₃ . Catalysis Letters, 2023, 153, 2176-2195.	1.4	2
504	Structure-activity strategy comparison of (NH ₄) ₂ CO ₃ and NH ₄ OH precipitants on MnO catalyst for low-temperature NO abatement. Molecular Catalysis, 2022, 531, 112693.	1.0	2
505	Insight into the dynamic behaviors of reactants with temperature over a TiO ₂ -based catalyst for NO removal via NH ₃ -SCR. Applied Surface Science, 2022, 605, 154689.	3.1	7

#	ARTICLE	IF	CITATIONS
506	Recent progress in NO _x photocatalytic removal: Surface/interface engineering and mechanistic understanding. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108566.	3.3	15
507	Comparison of Mn doped CeO ₂ with different exposed facets for NH ₃ -SCR at low temperature. <i>Journal of the Energy Institute</i> , 2022, 105, 114-120.	2.7	14
508	Bimetallic modification of MnFeO nanobelts with Nb and Nd for enhanced low-temperature de-NO performance and SO ₂ tolerance. <i>Fuel</i> , 2023, 331, 125861.	3.4	23
509	Balancing acid and redox sites of phosphorylated CeO ₂ catalysts for NO _x reduction: The promoting and inhibiting mechanism of phosphorus. <i>Journal of Hazardous Materials</i> , 2023, 441, 129867.	6.5	17
510	Effects of Nb-modified CeVO ₄ to form surface Ce-O-Nb bonds on improving low-temperature NH ₃ -SCR deNO activity and resistance to SO ₂ & H ₂ O. <i>Fuel</i> , 2023, 331, 125799.	3.4	22
511	Mechanism, performance and modification methods for NH ₃ -SCR catalysts: A review. <i>Fuel</i> , 2023, 331, 125885.	3.4	84
512	Spontaneous intra-electron transfer within rGO@Fe ₂ O ₃ -MnO catalyst promotes long-term NO _x reduction at ambient conditions. <i>Journal of Hazardous Materials</i> , 2023, 441, 129951.	6.5	11
513	Extraordinary deactivation offset effect of zinc and arsenic on V ₂ O ₅ /WO ₃ /TiO ₂ catalysts: Like cures like. <i>Journal of Hazardous Materials</i> , 2023, 441, 129894.	6.5	7
514	Mechanistic investigation of the enhanced SO ₂ resistance of Co-modified MnO _x catalyst for the selective catalytic reduction of NO _x by NH ₃ . <i>Chemical Engineering Journal</i> , 2023, 452, 139207.	6.6	23
515	Efficient adsorption removal of NO ₂ by covalent triazine frameworks with fine-tuned binding sites. <i>Journal of Hazardous Materials</i> , 2023, 441, 129962.	6.5	9
516	Novel manganese-based assembled nanocatalyst with nitrogen oxide filter for efficient NH ₃ -SCR in wide low-temperature window: Optimization, design and mechanism. <i>Fuel</i> , 2023, 331, 125857.	3.4	10
517	Bimetallic Modification of MnfeO X Nanobelts with Nb and Nd for Enhanced Low-Temperature De-No X Performance and So2 Tolerance. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
518	Effect of SO ₂ poisoning on undoped and doped Mn-based catalysts for selective catalytic reduction of NO. <i>Catalysis Science and Technology</i> , 2022, 12, 6838-6848.	2.1	1
519	Sm-Mno X /TiO ₂ -{001} with Preferentially Exposed Anatase {001} Facet for Selective Catalytic Reduction of No X with Nh3. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
520	SrSnO ₃ Applied in the Reduction of NO by CO: Influence of Transition Metal Doping on the Catalytic Activity. <i>Engineering Materials</i> , 2022, , 111-147.	0.3	1
521	Comparative analysis of the dual origins of the N ₂ O byproduct on MnO _x , FeO _x , and MnFeO _x sphere catalysts for a low-temperature SCR of NO with NH ₃ . <i>Journal of Materials Chemistry A</i> , 2022, 10, 21474-21491.	5.2	45
522	Promotion of the selective catalytic reduction of NO _x with NH ₃ over microporous Cu-SSZ-13 by H ₂ O and OH groups at low temperatures: a density functional theory study. <i>Catalysis Science and Technology</i> , 2022, 12, 5524-5532.	2.1	6
523	Insight into the Dynamic Behaviors of Reactants with Temperature Over a Tio _x -Based Catalyst for No _x Removal Via Nh3-Scr. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0

#	ARTICLE	IF	CITATIONS
524	Introduction, a short history of single site catalysis. , 2022, , .		0
525	Confinement catalysis of a single atomic vacancy assisted by aliovalent ion doping enabled efficient NO electroreduction to NH ₃ . Journal of Materials Chemistry A, 2022, 10, 18690-18700.	5.2	42
526	A review on the characterization of metal active sites over Cu-based and Fe-based zeolites for NH ₃ -SCR. RSC Advances, 2022, 12, 27746-27765.	1.7	14
527	Synergistic effect of cyano defects and CaCO ₃ in graphitic carbon nitride nanosheets for efficient visible-light-driven photocatalytic NO removal. Journal of Hazardous Materials, 2023, 442, 130040.	6.5	69
528	Insight into the N ₂ O formation mechanism on the $\hat{1}^2$ -MnO ₂ (1 1 0) during low-temperature NH ₃ -SCR: Reaction pathway and electronic analysis of different intermediates. Applied Surface Science, 2023, 607, 154981.	3.1	4
529	Data-Driven Inference of Synthesis Guidelines for High-Performance Zeolite-Based Selective Catalytic Reduction Catalysts at Low Temperatures. Chemistry of Materials, 2022, 34, 7761-7773.	3.2	4
530	Tuning the high-temperature hydrothermal stability of one-pot derived Cu-SSZ-13 in the presence of SO ₂ for selective catalytic reduction of NO _x by ammonia. Catalysis Today, 2022, 405-406, 23-29.	2.2	1
531	Three-Dimensional Graphene Supported CeCo _x Cu _{1-x} Catalysts for Low Temperature Selective Catalytic Reduction of NO _x by NH ₃ . Russian Journal of Physical Chemistry A, 2022, 96, 1680-1686.	0.1	0
532	Boosting SO ₂ -Tolerant Catalytic Reduction of NO _x via Selective Adsorption and Activation of Reactants over Ce ⁴⁺ SO ₄ Pair Sites. ACS Catalysis, 2022, 12, 11306-11317.	5.5	27
533	Catalytic Performance and Sulfur Dioxide Resistance of One-Pot Synthesized Fe-MCM-22 in Selective Catalytic Reduction of Nitrogen Oxides with Ammonia (NH ₃ -SCR) – The Effect of Iron Content. International Journal of Molecular Sciences, 2022, 23, 10754.	1.8	5
534	DeNO _x Characteristics of Commercial SCR Catalyst Regenerated On-Line by Dry Ice Blasting in a Coal-Fired Power Plant. Industrial & Engineering Chemistry Research, 2022, 61, 14382-14392.	1.8	6
535	Compensation or Aggravation: Pb and SO ₂ Copoisoning Effects over Ceria-Based Catalysts for NO _x Reduction. Environmental Science & Technology, 2022, 56, 13368-13378.	4.6	27
536	Metal Sites in Zeolites: Synthesis, Characterization, and Catalysis. Chemical Reviews, 2023, 123, 6039-6106.	23.0	95
537	Rational Design of Mesoporous CuO/CeO ₂ Catalysts for NH ₃ -SCR Applications Guided by Multiple <i>In Situ</i> Spectroscopies. ACS Applied Materials & Interfaces, 2022, 14, 43407-43420.	4.0	7
538	One-pot synthesis of CNT-SAPO-34 composite supported copper and cerium catalysts with excellent surface resistance to SO ₂ and H ₂ O in NH ₃ -SCR. Journal of Rare Earths, 2023, 41, 1344-1352.	2.5	5
539	Unravelling the phosphorus-induced effect on NH ₃ -SCR catalytic performance, hydrothermal stability and SO ₂ resistance of Cu/SAPO-34. Applied Catalysis A: General, 2022, 646, 118888.	2.2	6
540	Chemistry of a Nitrosyl Ligand $\hat{1}^2$ -Bridging a Ditungsten Center: Rearrangement and N=O Bond Cleavage Reactions. Inorganic Chemistry, 2022, 61, 14929-14933.	1.9	2
541	CeO ₂ Nanoparticles Supported on SnNb ₂ O ₆ Nanosheets for Selective Catalytic Reduction of NO _x with NH ₃ . ACS Applied Nano Materials, 2022, 5, 13529-13541.	2.4	7

#	ARTICLE	IF	CITATIONS
542	Novel 2D Layered Manganese Silicate Nanosheets with Excellent Performance for Selective Catalytic Reduction of NO with Ammonia. <i>ChemCatChem</i> , 2022, 14, .	1.8	0
543	MnO _x catalysts with different morphologies for low temperature synergistic removal of NO _x and toluene: Structure-activity relationship and mutual inhibitory effects. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108646.	3.3	9
544	Novel development of VO _x -CeO _x -WO _x /TiO ₂ catalyst for low-temperature catalytic oxidation of chloroaromatic organics. <i>Waste Disposal & Sustainable Energy</i> , 2022, 4, 259-269.	1.1	4
545	Nitrogen atom coordination tuned transition metal catalysts for NO oxidation and reduction. <i>Chemosphere</i> , 2022, , 136735.	4.2	1
546	Microscopic impact mechanism of alkali earth metal poisoning and Ce modification on the deNO _x over the $\hat{1}^3$ -Fe ₂ O ₃ (0 0 1) surface. <i>Applied Surface Science</i> , 2023, 608, 155178.	3.1	2
547	Unveiling the effect of Al ₂ O ₃ on PbCl ₂ resistance over Mn-Ce/AC catalyst for low-temperature NH ₃ -SCR of NO. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 140, 104535.	2.7	10
548	One-pot synthesis of rare earth modified Cu/SAPO-34 for enhanced selective catalytic reduction denitration performance. <i>Separation and Purification Technology</i> , 2022, 303, 122281.	3.9	8
549	Ordered mesoporous TiO ₂ /SBA-15 confined Ce _x W _y catalysts for selective catalytic reduction of NO using NH ₃ . <i>New Journal of Chemistry</i> , 2022, 46, 22030-22044.	1.4	2
550	Catalytic ammonia reforming: alternative routes to net-zero-carbon hydrogen and fuel. <i>Chemical Science</i> , 2022, 13, 12945-12956.	3.7	7
551	Phosphotungstic Acid-Modified MnO _x for Selective Catalytic Reduction of NO _x with NH ₃ . <i>Catalysts</i> , 2022, 12, 1248.	1.6	5
552	Insight into the effect of phosphorus poisoning of Cu/zeolites with different framework towards NH ₃ -SCR. <i>Chemical Engineering Journal</i> , 2023, 454, 140040.	6.6	1
553	Purification Technologies for NO _x Removal from Flue Gas: A Review. <i>Separations</i> , 2022, 9, 307.	1.1	10
554	Manganese-enhanced porous phosphoric acid-based geopolymer templated by carbon for efficient NH ₃ -SCR of NO _x . <i>International Journal of Applied Ceramic Technology</i> , 2023, 20, 1235-1247.	1.1	1
555	Nitrogen-Doped Pitch-Based Activated Carbon Fibers with Multi-Dimensional Metal Nanoparticle Distribution for the Effective Removal of NO. <i>Catalysts</i> , 2022, 12, 1192.	1.6	4
556	Defect engineering for advanced electrocatalytic conversion of nitrogen-containing molecules. <i>Science China Chemistry</i> , 2023, 66, 1052-1072.	4.2	14
557	V ₂ O ₅ -WO ₃ catalysts treated with titanium isopropoxide using a one-step co-precipitation method for selective catalytic reduction with NH ₃ . <i>Catalysis Today</i> , 2023, 411-412, 113924.	2.2	1
558	Effect of Fe doping on NH ₃ adsorption and resistance to sulfur poisoning on the surface of $\hat{1}^2$ -MnO ₂ (110): a DFT-D study. <i>Journal of Materials Science</i> , 2022, 57, 18468-18485.	1.7	3
559	Interface sites on vanadia-based catalysts are highly active for NO removal under realistic conditions. <i>Journal of Environmental Sciences</i> , 2024, 136, 523-536.	3.2	3

#	ARTICLE	IF	CITATIONS
560	Polyol-Mediated Synthesis of V ₂ O ₅ -WO ₃ /TiO ₂ Catalysts for Low-Temperature Selective Catalytic Reduction with Ammonia. <i>Nanomaterials</i> , 2022, 12, 3644.	1.9	3
561	The Synergistic Catalysis of Chloroaromatic Organics and NO _x over Monolithic Vanadium-Based Catalysts at Low Temperature. <i>Catalysts</i> , 2022, 12, 1342.	1.6	0
562	Improvement of Sb-Modified Mn-Ce/TiO ₂ Catalyst for SO ₂ and H ₂ O Resistance at Low-Temperature SCR. <i>Catalysis Letters</i> , 2023, 153, 2838-2852.	1.4	3
563	Ordered mesoporous TiO ₂ framework confined CeSn catalyst exhibiting excellent high activity for selective catalytic reduction of NO with NH ₃ at low temperature. <i>Chemical Engineering Journal</i> , 2023, 454, 140181.	6.6	16
564	Active site exposure of sulfur-etched CeO ₂ nanorods for nitrogen oxide reduction. <i>Atmospheric Pollution Research</i> , 2022, 13, 101582.	1.8	2
565	Ceria accelerates ammonium bisulfate decomposition for improved SO ₂ resistance on a V ₂ O ₅ -WO ₃ /TiO ₂ catalyst in low-temperature NH ₃ -SCR. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 140, 104555.	2.7	7
566	Poisoning and regeneration of commercial V ₂ O ₅ -WO ₃ /TiO ₂ selective catalytic reduction (SCR) catalyst in coal-fired power plants. <i>Chemical Engineering Research and Design</i> , 2022, 168, 971-992.	2.7	32
567	A novel low-temperature Fe-Fe double-atom catalyst for a "fast SCR" reaction. <i>Molecular Catalysis</i> , 2022, 533, 112769.	1.0	5
568	Synthesis of novel Co(3-x)MnxO ₄ @TiO ₂ core-shell catalyst for low-temperature NH ₃ -SCR of NO _x with enhanced SO ₂ tolerance. <i>Chemical Physics Impact</i> , 2022, 5, 100120.	1.7	4
569	A comprehensive review of the heavy metal issues regarding commercial vanadium-titanium-based SCR catalyst. <i>Science of the Total Environment</i> , 2023, 857, 159712.	3.9	26
570	Mechanism of iron doping promoting high temperature deNO _x and anti-water vapor and SO ₂ poisoning of ZrW(Fe)O _x . <i>Fuel</i> , 2023, 332, 126248.	3.4	4
571	Superior PbO-resistance of CeO ₂ /ZrO ₂ catalyst promoted by solid superacid SO ₄ ²⁻ /ZrO ₂ for selective catalytic reduction of NO with NH ₃ . <i>Fuel</i> , 2023, 332, 126103.	3.4	19
572	100% N ₂ O inhibition in photocatalytic NO _x reduction by carbon particles over Bi ₂ WO ₆ /TiO ₂ Z-scheme heterojunctions. <i>Chemical Engineering Journal</i> , 2023, 453, 139892.	6.6	8
573	Oxygen vacancies enhance the photocatalytic deep oxidation of NO over N-doped KNbO ₃ catalyst. <i>Catalysis Science and Technology</i> , 0, , .	2.1	2
574	Theoretical investigation of single-atom catalysts anchored on pure carbon substrate for electroreduction of NO to NH ₃ . <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 29112-29119.	1.3	1
575	Trace Co doping improves NH ₃ -SCR performance and poisoning resistance of Ce-Mn-based catalysts. <i>Chemical Engineering Journal</i> , 2023, 454, 140180.	6.6	25
576	The simultaneous removal of NO and SO ₂ from flue gas by direct injection of sorbents in furnace of waste incinerator. <i>Fuel</i> , 2023, 333, 126464.	3.4	6
577	Interfacial oxygen vacancies at Co ₃ O ₄ -CeO ₂ heterointerfaces boost the catalytic reduction of NO by CO in the presence of O ₂ . <i>Applied Catalysis B: Environmental</i> , 2023, 323, 122151.	10.8	34

#	ARTICLE	IF	CITATIONS
578	A Review on Resource Utilization of Spent V-W-Ti Based Selective Catalytic Reduction Catalysts. <i>Materials</i> , 2022, 15, 7984.	1.3	4
579	A new synthesis method for supported composite oxides: Preparation of $\text{Ce} \times \text{Cu} / \text{TiO}_2$ catalysts by ice melting method. <i>Journal of Chemical Technology and Biotechnology</i> , 0, , .	1.6	0
580	Adsorptive purification of NO _x by HZSM-5 zeolites: Effects of Si/Al ratio, temperature, humidity, and gas composition. <i>Microporous and Mesoporous Materials</i> , 2023, 348, 112331.	2.2	3
581	Toward an Atomic-Level Understanding of the Catalytic Mechanism of Selective Catalytic Reduction of NO _x with NH ₃ . <i>ACS Catalysis</i> , 2022, 12, 14347-14375.	5.5	25
582	Isolated Electron-Rich Ruthenium Atoms in Intermetallic Compounds for Boosting Electrochemical Nitric Oxide Reduction to Ammonia. <i>Angewandte Chemie - International Edition</i> , 2023, 62, .	7.2	19
583	Protection Effect of Ammonia on CeNbTi NH ₃ -SCR Catalyst from SO ₂ Poisoning. <i>Catalysts</i> , 2022, 12, 1430.	1.6	0
584	A Review of Synergistic Catalytic Removal of Nitrogen Oxides and Chlorobenzene from Waste Incinerators. <i>Catalysts</i> , 2022, 12, 1360.	1.6	6
585	Experiment and mechanism investigation on simultaneously catalytic reduction of NO _x and oxidation of toluene over MnO _x /Cu-SAPO-34. <i>Applied Surface Science</i> , 2023, 611, 155628.	3.1	5
586	Current challenges and developments of inorganic/organic materials for the abatement of toxic nitrogen oxides (NO _x) – A critical review. <i>Progress in Solid State Chemistry</i> , 2022, 68, 100380.	3.9	10
587	Boosting the catalytic performance of Cu-SAPO-34 in NO removal via hydrothermal treatment. <i>Journal of Environmental Sciences</i> , 2024, 135, 640-655.	3.2	2
588	Isolated Electron-Rich Ruthenium Atoms in Intermetallic Compounds for Boosting Electrochemical Nitric Oxide Reduction to Ammonia. <i>Angewandte Chemie</i> , 0, , .	1.6	0
589	Hydrotalcite-Modified Clinoptilolite as the Catalyst for Selective Catalytic Reduction of NO with Ammonia (NH ₃ -SCR). <i>Materials</i> , 2022, 15, 7884.	1.3	1
590	Elucidating the sensitivity of vanadyl species to water over V ₂ O ₅ /TiO ₂ catalysts for NO _x abatement via operando Raman spectroscopy. <i>Journal of Catalysis</i> , 2022, 416, 198-208.	3.1	10
591	Highly ordered mesoporous MnO _x catalyst for the NH ₃ -SCR of NO _x at low temperatures. <i>Applied Catalysis A: General</i> , 2023, 649, 118966.	2.2	13
592	Poisoning Effects of HCl on $\text{MO} \times \text{WO}_3 / \text{TiO}_2$ (M=Mn, Ce and Tj) ETQq0 0 0 rgBT /Overlo <i>ChemCatChem</i> , 2023, 15, .	1.8	4
593	Effects of Ti modified CeCu mixed oxides on the catalytic performance and SO ₂ resistance towards benzene combustion. <i>Catalysis Communications</i> , 2023, 174, 106596.	1.6	3
594	Novel preparation method, catalytic performance and reaction mechanisms of $\text{Pr}_x\text{Mn}_{1-x}\text{O}_3 / \text{ZSM-5}$ catalysts for the simultaneous removal of soot and NO. <i>Journal of Catalysis</i> , 2023, 417, 226-247.	3.1	13
595	Efficient carrier transfer induced by Au nanoparticles for photoelectrochemical nitrogen reduction. <i>Sustainable Energy and Fuels</i> , 2023, 7, 883-889.	2.5	2

#	ARTICLE	IF	CITATIONS
614	Negatively Charged Single-Atom Pt Catalyst Shows Superior SO ₂ Tolerance in NO _x Reduction by CO. ACS Catalysis, 2023, 13, 224-236.	5.5	21
615	Selective catalytic reduction of NO _x with NH ₃ and tolerance to H ₂ O & SO ₂ at high temperature over zeolite supported indium-copper bimetallic catalysts for gas turbine. Journal of Environmental Chemical Engineering, 2023, 11, 109218.	3.3	4
616	Efficient one-pot synthesis of Cu-SAPO-34 catalysts for NH ₃ -SCR of NO _x . Fuel, 2023, 339, 126927.	3.4	6
617	CuO decorated vacancy-rich CeO ₂ nanopencils for highly efficient catalytic NO reduction by CO at low temperature. Environmental Science and Pollution Research, 2023, 30, 31895-31904.	2.7	2
618	Effects of A-site replacement (Sm, Y, and Pr) on catalytic performances of mullite catalysts for NO oxidation. Fuel, 2023, 337, 126838.	3.4	2
619	Unravelling the promotional effect of Nb and Mo on VO _x -based catalysts for NO _x reduction with NH ₃ . Applied Surface Science, 2023, 614, 156072.	3.1	3
620	Getting insights into gas-phase sulfation effect on catalytic performance of praseodymium oxides in NH ₃ -SCR of NO. Journal of Rare Earths, 2023, 41, 952-958.	2.5	5
621	Potential Risk of NH ₃ Slip Arisen from Catalytic Inactive Site in Selective Catalytic Reduction of NO _x with Metal-Free Carbon Catalysts. Environmental Science & Technology, 2023, 57, 606-614.	4.6	7
622	Low-temperature NH ₃ -SCR performance of a novel Chlorella@Mn composite denitrification catalyst. Journal of Environmental Sciences, 2024, 137, 271-286.	3.2	5
623	Efficient enhancement of the anti-KCl-poisoning performance for V ₂ O ₅ -WO ₃ /TiO ₂ catalysts by Ce(SO ₄) ₂ modification. Journal of Solid State Chemistry, 2023, 319, 123807.	1.4	2
624	Tungsten modified natural limonite catalyst for efficient low-temperature selective catalytic reduction of NO removal with NH ₃ : preparation and characterization. Environmental Science and Pollution Research, 2023, 30, 36294-36310.	2.7	3
625	Controlled Growth of Platinum Nanoparticles on Amorphous Silica from Grafted Pt@Disilicate Complexes. ACS Omega, 2022, 7, 47120-47128.	1.6	1
626	Expediting Toluene Combustion by Harmonizing the Ce-O Strength over Co-Doped CeZr Oxide Catalysts. Environmental Science & Technology, 2023, 57, 1797-1806.	4.6	30
627	Original exploration of transition metal single-atom catalysts for NO reduction. Journal of Materials Chemistry A, 0, .	5.2	1
628	Recent developments of core-shell structured catalysts for the selective catalytic reduction of NO _x with ammonia. Inorganic Chemistry Frontiers, 2023, 10, 727-755.	3.0	6
629	Direct observation of Cu in high-silica chabazite zeolite by electron ptychography using Wigner distribution deconvolution. Scientific Reports, 2023, 13, .	1.6	1
630	Selective catalytic reduction of NO with NH ₃ over core-shell Ce@W catalyst. Journal of Rare Earths, 2023, 41, 959-964.	2.5	3
631	Improvement of SO ₂ resistance of Cu-SSZ-13 with polyoxometalates in selective catalytic reduction of NO _x . Microporous and Mesoporous Materials, 2023, 349, 112421.	2.2	3

#	ARTICLE	IF	CITATIONS
632	Unlocking low-temperature and anti-SO ₂ poisoning performance of bimetallic PdV/TiO ₂ catalyst for chlorobenzene/NO catalytic removal by antimony modification design. <i>Chemical Engineering Journal</i> , 2023, 457, 141210.	6.6	6
633	Efficient synergistic catalysis of chlorinated aromatic hydrocarbons and NO _x over novel low-temperature catalysts: Nano-TiO ₂ modification and interaction mechanism. <i>Chemosphere</i> , 2023, 315, 137640.	4.2	3
634	Direct synthesis of Cu-SAPO-34 from solid phosphorus source for NH ₃ -SCR reaction. <i>Microporous and Mesoporous Materials</i> , 2023, 350, 112457.	2.2	2
635	V-Cu bimetallic oxide supported catalysts for synergistic removal of toluene and NO _x from coal-fired flue gas: The crucial role of support. <i>Chemical Engineering Journal</i> , 2023, 458, 141443.	6.6	12
636	Advanced strategies to reduce harmful nitrogen-oxide emissions from biodiesel fueled engine. <i>Renewable and Sustainable Energy Reviews</i> , 2023, 174, 113123.	8.2	16
637	Ultra-high hydrothermal stability of Ce-based NH ₃ -SCR catalyst for diesel engines: A substitute for Cu zeolites. <i>Fuel</i> , 2023, 338, 127263.	3.4	9
638	Elucidating NO _x Surface Chemistry at the Anatase (101) Surface in TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2023, 127, 437-449.	1.5	4
639	Revealing the crystal facet effect on N ₂ O formation during the NH ₃ -SCR over δ -MnO ₂ catalysts. <i>RSC Advances</i> , 2023, 13, 4032-4039.	1.7	6
640	Efficient electrochemical NO reduction to NH ₃ over metal-free g-C ₃ N ₄ nanosheets and the role of interface microenvironment. <i>Journal of Hazardous Materials</i> , 2023, 448, 130890.	6.5	5
642	Er-modified MnO for selective catalytic reduction of NO with NH ₃ at low temperature: Promoting effect of erbium on catalytic performance. <i>Journal of Rare Earths</i> , 2023, 41, 917-925.	2.5	1
643	A novel core-shell Ce@Mn catalyst for the selective catalytic reduction of NO _x with NH ₃ . <i>Chemical Physics Impact</i> , 2023, 6, 100164.	1.7	4
644	Catalytic conversion to ammonia through solid-state nitrate as a proposal for the emerging usage of nitrogen oxides. <i>Catalysis Science and Technology</i> , 2023, 13, 2927-2936.	2.1	0
645	Microwave-associated chemistry in environmental catalysis for air pollution remediation: A review. <i>Chemical Engineering Journal</i> , 2023, 466, 142902.	6.6	13
646	Construction of 3DOM Fe ₂ O ₃ /CuO heterojunction nanomaterials for enhanced AP decomposition. <i>Applied Surface Science</i> , 2023, 619, 156739.	3.1	7
647	The inter-connected porous CuO _x -NbO _x /kit-CeO ₂ catalyst: Enhanced activity, resistance of SO ₂ and H ₂ O for the removal of NO _x . <i>Chemical Physics Impact</i> , 2023, 6, 100179.	1.7	1
648	Bi ₁₂ TiO ₂₀ -TiO ₂ S-scheme heterojunction for improved photocatalytic NO removal: Experimental and DFT insights. <i>Separation and Purification Technology</i> , 2023, 314, 123575.	3.9	14
649	Promotional role of Co on Cu-SAPO-34 towards enhanced denitration performance and SO ₂ tolerance. <i>Fuel</i> , 2023, 342, 127789.	3.4	8
650	Low temperature selective catalytic reduction of NO _x with NH ₃ with improved SO ₂ and water resistance by using N-doped graphene dots-Cu@CeO ₂ nano-heterostructures modified vanadate catalysts. <i>Applied Surface Science</i> , 2023, 623, 157088.	3.1	6

#	ARTICLE	IF	CITATIONS
651	Unraveling the high catalytic activity of single atom Mo-doped TiO ₂ toward NH ₃ -SCR: Synergetic roles of Mo as acid sites and oxygen vacancies as oxidation sites. <i>Chemical Engineering Journal</i> , 2023, 465, 142759.	6.6	14
652	Characteristics of deactivation and thermal regeneration of Nb-doped V ₂ O ₅ –WO ₃ /TiO ₂ catalyst for NH ₃ -SCR reaction. <i>Environmental Research</i> , 2023, 227, 115744.	3.7	6
653	Excellent activity and selectivity of Pd/ZSM-5 catalyst in the selective catalytic reduction of NO by H ₂ . <i>Environmental Research</i> , 2023, 227, 115707.	3.7	4
654	Recent advance for NO removal with carbonaceous material for low-temperature NH ₃ -SCR reaction. <i>Catalysis Today</i> , 2023, 418, 114053.	2.2	8
655	Selective catalytic reduction of NO with NH ₃ over MnO _x -CeO ₂ catalysts: The great synergy between CeO ₂ and crystalline phase of Mn ₃ O ₄ . <i>Fuel</i> , 2023, 342, 127772.	3.4	8
656	Recent advances in Pb resistance over SCR catalysts: Reaction mechanisms and anti-inactivation measures. <i>Catalysis Today</i> , 2023, 418, 114046.	2.2	4
657	Facile one-pot synthesis of Fe-UZM-35 catalysts for ammonia selective catalytic reduction. <i>Applied Catalysis B: Environmental</i> , 2023, 329, 122552.	10.8	4
658	The enhancement effect of Nb over CeSi ₂ catalyst for the low-temperature NH ₃ -SCR performance. <i>Chemical Physics Impact</i> , 2023, 6, 100205.	1.7	1
659	Maximizing the hydrothermal stability of Cu-LTA for NH ₃ -SCR by control of Cu content and location. <i>Applied Catalysis B: Environmental</i> , 2023, 331, 122705.	10.8	8
660	Optimized local geometry and electronic structure of MoO ₃ /CeO ₂ catalyst by adding copper cations for boosted nitrogen oxide reduction performance. <i>Applied Catalysis B: Environmental</i> , 2023, 332, 122742.	10.8	5
661	Direct synthesis of high silica SSZ-16 zeolite with extraordinarily superior performance in NH ₃ -SCR reaction. <i>Applied Catalysis B: Environmental</i> , 2023, 332, 122746.	10.8	5
662	Insight into the enhanced tolerance of Mo-doped CeO ₂ -Nb ₂ O ₅ /TiO ₂ catalyst towards the combined effect of K ₂ O, H ₂ O and SO ₂ in NH ₃ -SCR. <i>Fuel</i> , 2023, 346, 128339.	3.4	7
663	Review on NH ₃ -SCR for simultaneous abating NO _x and VOCs in industrial furnaces: Catalysts' composition, mechanism, deactivation and regeneration. <i>Fuel Processing Technology</i> , 2023, 247, 107773.	3.7	12
664	Review on advances in structure–activity relationship, reaction & deactivation mechanism and rational improving design of selective catalytic reduction deNO catalysts: Challenges and opportunities. <i>Fuel</i> , 2023, 343, 127924.	3.4	14
665	Sodium ion intercalation in vanadium oxide promotes low-temperature NH ₃ -SCR activity: Sodium vanadium bronzes (Na _{0.33} V ₂ O ₅) for NO _x removal. <i>Applied Catalysis B: Environmental</i> , 2023, 328, 122536.	10.8	3
666	Design of confined catalysts and applications in environmental catalysis: Original perspectives and further prospects. <i>Journal of Cleaner Production</i> , 2023, 390, 136125.	4.6	6
667	Catalytic performances of Cu-ZK-5 zeolites with different template agents in NH ₃ -SCR. <i>Journal of Environmental Chemical Engineering</i> , 2023, 11, 109404.	3.3	1
668	Application of CeTiO _x -MOFs catalysts for synergistic removal of toluene and NO _x . <i>Catalysis Communications</i> , 2023, 175, 106621.	1.6	3

#	ARTICLE	IF	CITATIONS
669	Optimization and comprehensive mechanism of environment-friendly bimetal oxides catalysts for efficient removal of NO in ultra-low temperature flue gas. Separation and Purification Technology, 2023, 311, 123324.	3.9	6
670	Diesel Engine Emission Aftertreatment Device Aging Mechanism and Durability Assessment Methods: A Review. Atmosphere, 2023, 14, 314.	1.0	2
671	Efficient NO _x Reduction against Alkali Poisoning over a Self-Protection Armor by Fabricating Surface Ce ₂ (SO ₄) ₃ Species: Comparison to Commercial Vanadia Catalysts. Environmental Science & Technology, 2023, 57, 2949-2957.	4.6	10
672	Effective Nitric Oxide Reduction Over Core-Shell Cu ¹³ @meso-MO _x Catalysts with Significant Catalytic Activity and Hydrothermal Stability. ChemPlusChem, 2023, 88, .	1.3	1
673	Investigation of intrinsic catalytic mechanism for NO oxidation to NO ₂ in CeO ₂ used for NO removal. Chemical Engineering Journal, 2023, 460, 141801.	6.6	4
674	Morphology effects in MnCeO _x solid solution-catalyzed NO reduction with CO: Active sites, water tolerance, and reaction pathway. Nano Research, 2023, 16, 6951-6959.	5.8	18
675	Emission Control of Toluene in Iron Ore Sintering Using Catalytic Oxidation Technology: A Critical Review. Catalysts, 2023, 13, 429.	1.6	1
676	Catalytic removal of nitrogen oxides (NO, NO ₂ , N ₂ O) from ammonia-fueled combustion exhaust: A review of applicable technologies. Chemical Engineering Journal, 2023, 461, 141958.	6.6	16
677	Exhaust Gas After-Treatment Systems for Gasoline and Diesel Vehicles. , 0, , 9.		1
678	Exploring the Multifunctionality of Mechanochemically Synthesized γ -Alumina with Incorporated Selected Metal Oxide Species. Molecules, 2023, 28, 2002.	1.7	3
679	Cold-Start NO _x Mitigation by Passive Adsorption Using Pd-Exchanged Zeolites: From Material Design to Mechanism Understanding and System Integration. Environmental Science & Technology, 2023, 57, 3467-3485.	4.6	7
680	Hydrothermal Aging Alleviates the Phosphorus Poisoning of Cu-SSZ-39 Catalysts for NH ₃ -SCR Reaction. Environmental Science & Technology, 2023, 57, 4113-4121.	4.6	7
681	NO _x reduction against alkali poisoning over Ce(SO ₄) ₂ -V ₂ O ₅ /TiO ₂ catalysts by constructing the Ce ⁴⁺ -SO ₄ ²⁻ pair sites. Chinese Chemical Letters, 2024, 35, 108240.	4.8	2
682	Effect of Cu-Doped Co-Mn Spinel for Boosting Low-Temperature NO Reduction by CO: Exploring the Structural Properties, Performance, and Mechanisms. ACS Applied Materials & Interfaces, 2023, 15, 11885-11894.	4.0	7
683	Mechanistic Insight into the Promotion of the Low-Temperature NH ₃ -Selective Catalytic Reduction Activity over Mn _x Ce _{1-x} O _y Catalysts: A Combined Experimental and Density Functional Theory Study. Environmental Science & Technology, 2023, 57, 3875-3882.	4.6	22
684	Prominent difference in the deactivation rate and mechanism of V ₂ O ₅ /TiO ₂ under H ₂ S or SO ₂ during selective catalytic reduction of NO _x with NH ₃ . Applied Catalysis B: Environmental, 2023, 328, 122529.	10.8	11
685	La ions-enhanced NH ₃ -SCR performance over Cu-SSZ-13 catalysts. Nano Research, 2023, 16, 12126-12133.	5.8	6
686	Investigation on low energy-consumed embedded selective catalytic reduction technology for pelletizing flue gas and the CO ₂ emission reduction assessment. Environmental Science and Pollution Research, 2023, 30, 53492-53504.	2.7	1

#	ARTICLE	IF	CITATIONS
687	Design and identify the confinement effect of active site position on catalytic performance for selective catalytic reduction of NO with NH ₃ at low temperature. <i>Journal of Catalysis</i> , 2023, 420, 134-150.	3.1	18
688	The effect of amorphous silica support on the catalytic activity of liquid-exfoliated monolayered MCM-56 zeolite. <i>Journal of Porous Materials</i> , 2023, 30, 1459-1468.	1.3	1
689	NiB ₂ O ₄ (B = Mn or Co) catalysts for NH ₃ -SCR of NO _x at low-temperature in microwave field. <i>Frontiers of Environmental Science and Engineering</i> , 2023, 17, .	3.3	1
690	Efficient Pt/KFI zeolite catalysts for the selective catalytic reduction of NO by hydrogen. <i>Journal of Environmental Sciences</i> , 2024, 138, 102-111.	3.2	3
691	Monolithic CuMnO ₂ -Nanosheet-Based Catalysts In Situ Grown on Stainless Steel Mesh for Selective Catalytic Reduction of NO with CO. <i>ACS Applied Nano Materials</i> , 2023, 6, 4803-4811.	2.4	2
692	Tailoring valence state of V in V-Mo atomically dispersed ensemble enables exceptional NH ₄ HSO ₄ poisoning resistance for NH ₃ -SCR reaction. <i>Chemical Engineering Journal</i> , 2023, 464, 142540.	6.6	11
693	Beyond Purification: Highly Efficient and Selective Conversion of NO into Ammonia by Coupling Continuous Absorption and Photoreduction under Ambient Conditions. <i>Environmental Science & Technology</i> , 2023, 57, 5445-5452.	4.6	6
694	Enhanced low-temperature activity and humid-SO ₂ resistance of MnFe-based multi-oxide catalysts for the marine NH ₃ -SCR reaction. <i>Journal of Industrial and Engineering Chemistry</i> , 2023, 123, 209-219.	2.9	0
695	Catalytic degradation of chlorinated volatile organic compounds (CVOCs) over Ce-Mn-Ti composite oxide catalysts. <i>Journal of Environmental Sciences</i> , 2023, , .	3.2	3
696	Insight into the Origin of Excellent SO ₂ Tolerance and de-NO _x Performance of quasi-Mn-BTC in the Low-Temperature Catalytic Reduction of Nitrogen Oxide. <i>ACS Catalysis</i> , 2023, 13, 5020-5032.	5.5	32
697	Effect of Metal Complexing on Mn-Fe/TS-1 Catalysts for Selective Catalytic Reduction of NO with NH ₃ . <i>Molecules</i> , 2023, 28, 3068.	1.7	0
698	Revealing the Excellent Low-Temperature Activity of the Fe-Ce-O-S Catalyst for NH ₃ -SCR: Improvement of the Lattice Oxygen Mobility. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 17834-17847.	4.0	13
699	Development and optimization of a novel industrial process solution for stripping of carbon dioxide and ammonia from bio-process wastewater. <i>Chemical Engineering Research and Design</i> , 2023, 193, 810-825.	2.7	0
700	Quantitative discrimination of surface adsorbed NO species on CeO ₂ via spectrophotometry for SCR denitration investigation. <i>Journal of Rare Earths</i> , 2023, , .	2.5	2
701	Mn mixed oxide catalysts supported on Sn-doped CoAl-LDO for low-temperature NH ₃ -SCR. <i>Catalysis Science and Technology</i> , 2023, 13, 3147-3157.	2.1	3
702	Design of material regulatory mechanism for electrocatalytic converting NO/NO ₂ to NH ₃ . <i>Natural Sciences</i> , 2023, 3, .	1.0	9
703	Coated monolithic catalysts for better selective catalytic reduction: Concerns about structural integrity, catalytic activity and anti-poisoning performance. <i>Catalysis Communications</i> , 2023, 178, 106667.	1.6	2
704	The Contradictory Impact of Sulfation on a CeO ₂ /TiO ₂ NH ₃ -SCR Catalyst: A Combined Experimental and DFT Study. <i>Energy & Fuels</i> , 2023, 37, 6674-6682.	2.5	5

#	ARTICLE	IF	CITATIONS
705	Boosting resistance to H ₂ O and SO ₂ in low-temperature NH ₃ -SCR denitrification reaction by W addition in Cu _{0.1} -mWmTiO _x (m = 0.05–0.09) due to modulating the synergistic effect of oxidation property and acidity. <i>Fuel</i> , 2023, 347, 128443.	3.4	5
706	Research landscape and hotspots of selective catalytic reduction (SCR) for NO _x removal: insights from a comprehensive bibliometric analysis. <i>Environmental Science and Pollution Research</i> , 0, , .	2.7	0
707	Co-designing Electrocatalytic Systems with Separations To Improve the Sustainability of Reactive Nitrogen Management. <i>ACS Catalysis</i> , 2023, 13, 6268-6279.	5.5	4
744	Environmental applications of single-atom catalysts based on graphdiyne. <i>Catalysis Science and Technology</i> , 2023, 13, 5154-5174.	2.1	2
747	Hydrothermal Treatment of Biomass Feedstocks for Sustainable Production of Chemicals, Fuels, and Materials: Progress and Perspectives. <i>Chemical Reviews</i> , 2023, 123, 7193-7294.	23.0	39
757	Recent advances in electrocatalytic NO _x reduction into ammonia. , 2023, 1, 645-664.		2
805	Construction of cerium-based oxide catalysts with abundant defects/vacancies and their application to catalytic elimination of air pollutants. <i>Journal of Materials Chemistry A</i> , 2023, 11, 19210-19243.	5.2	1
866	Hyperordered Structures in Microporous Frameworks in Zeolites. <i>The Materials Research Society Series</i> , 2024, , 333-352.	0.2	0
871	Recent Progress and Current Status of Photocatalytic NO Removal. , 0, , .		0
872	Selective catalytic reduction of NO _x with NH ₃ over copper-based catalysts: recent advances and future prospects. , 2024, 2, 231-252.		1
879	Advances in low-temperature hydrothermal stability of Cu/SAPO-34 zeolite. <i>Chemical Papers</i> , 0, , .	1.0	0
950	Automotive Emission Control Technologies. , 2024, , .		0