

Wei Tan

List of Publications by Year in descending order

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29
papers

1,000
citations

394286

19
h-index

501076

28
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all docs

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docs citations

29
times ranked

504
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight into the SO ₂ resistance mechanism on γ -Fe ₂ O ₃ catalyst in NH ₃ -SCR reaction: A collaborated experimental and DFT study. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119544.	10.8	107
2	Morphology and Crystal-Plane Effects of CeO ₂ on TiO ₂ /CeO ₂ Catalysts during NH ₃ -SCR Reaction. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12407-12419.	1.8	90
3	Pore Size Expansion Accelerates Ammonium Bisulfate Decomposition for Improved Sulfur Resistance in Low-Temperature NH ₃ -SCR. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4900-4907.	4.0	81
4	Gas phase sulfation of ceria-zirconia solid solutions for generating highly efficient and SO ₂ resistant NH ₃ -SCR catalysts for NO removal. <i>Journal of Hazardous Materials</i> , 2020, 388, 121729.	6.5	72
5	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
6	Copper Single Atom-Triggered Niobia-Ceria Catalyst for Efficient Low-Temperature Reduction of Nitrogen Oxides. <i>ACS Catalysis</i> , 2022, 12, 2441-2453.	5.5	48
7	Mo doping as an effective strategy to boost low temperature NH ₃ -SCR performance of CeO ₂ /TiO ₂ catalysts. <i>Catalysis Communications</i> , 2018, 114, 10-14.	1.6	44
8	Enhanced low-temperature NH ₃ -SCR performance of CeTiO catalyst via surface Mo modification. <i>Chinese Journal of Catalysis</i> , 2020, 41, 364-373.	6.9	44
9	Revealing the effect of paired redox-acid sites on metal oxide catalysts for efficient NO removal by NH ₃ -SCR. <i>Journal of Hazardous Materials</i> , 2021, 416, 125826.	6.5	43
10	Influence of CeO ₂ loading on structure and catalytic activity for NH ₃ -SCR over TiO ₂ -supported CeO ₂ . <i>Journal of Rare Earths</i> , 2020, 38, 883-890.	2.5	42
11	Getting Insights into the Temperature-Specific Active Sites on Platinum Nanoparticles for CO Oxidation: A Combined in Situ Spectroscopic and ab Initio Density Functional Theory Study. <i>ACS Catalysis</i> , 2019, 9, 7759-7768.	5.5	33
12	Highly efficient Pt catalyst on newly designed CeO ₂ -ZrO ₂ -Al ₂ O ₃ support for catalytic removal of pollutants from vehicle exhaust. <i>Chemical Engineering Journal</i> , 2021, 426, 131855.	6.6	30
13	Highly Active and Stable Palladium Catalysts on Novel Ceria-Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. <i>Environmental Science & Technology</i> , 2021, 55, 7624-7633.	4.6	28
14	Tuning Single Atom Pt ₁ ~CeO ₂ Catalyst for Efficient CO and C ₃ H ₆ Oxidation: Size Effect of Ceria on Pt Structural Evolution. <i>ChemNanoMat</i> , 2020, 6, 1797-1805.	1.5	27
15	Enhancing low-temperature NH ₃ -SCR performance of Fe-Mn/CeO ₂ catalyst by Al ₂ O ₃ modification. <i>Journal of Rare Earths</i> , 2022, 40, 1454-1461.	2.5	26
16	Morphology-Sensitive Sulfation Effect on Ceria Catalysts for NH ₃ -SCR. <i>Topics in Catalysis</i> , 2020, 63, 932-943.	1.3	24
17	The dual effects of ammonium bisulfate on the selective catalytic reduction of NO with NH ₃ over Fe ₂ O ₃ -WO ₃ catalyst confined in MCM-41. <i>Chemical Engineering Journal</i> , 2020, 389, 124271.	6.6	24
18	Structure-activity relationship of Pt catalyst on engineered ceria-alumina support for CO oxidation. <i>Journal of Catalysis</i> , 2022, 405, 236-248.	3.1	23

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19	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
20	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
21	Molybdenum oxide as an efficient promoter to enhance the NH ₃ -SCR performance of CeO ₂ -SiO ₂ catalyst for NO removal. <i>Catalysis Today</i> , 2022, 397-399, 475-483.	2.2	19
22	Effects of different methods of introducing Mo on denitration performance and anti-SO ₂ poisoning performance of CeO ₂ . <i>Chinese Journal of Catalysis</i> , 2021, 42, 1488-1499.	6.9	19
23	Insights into the precursor effect on the surface structure of γ -Al ₂ O ₃ and NO ⁻ + ⁻ CO catalytic performance of CO-pretreated CuO/MnOx/ γ -Al ₂ O ₃ catalysts. <i>Journal of Colloid and Interface Science</i> , 2019, 554, 611-618.	5.0	15
24	Solid-phase impregnation promotes Ce doping in TiO ₂ for boosted denitration of CeO ₂ /TiO ₂ catalysts. <i>Chinese Chemical Letters</i> , 2022, 33, 935-938.	4.8	15
25	Activity enhancement of WO ₃ modified FeTiO catalysts for the selective catalytic reduction of NO by NH ₃ . <i>Catalysis Today</i> , 2021, 375, 614-622.	2.2	13
26	Unraveling the SO ₂ Poisoning Effect over the Lifetime of MeO _x (Me = Tj ETQq0 0 0 rgBT /Overlock 10) with Surface Species. <i>Journal of Physical Chemistry C</i> , 2022, 126, 12168-12177.	1.5	12
27	Evaluation of Manganese Oxide Octahedral Molecular Sieves for CO and C ₃ H ₆ Oxidation at Diesel Exhaust Conditions. <i>Frontiers in Environmental Chemistry</i> , 2021, 2, .	0.7	8
28	CeO ₂ doping boosted low-temperature NH ₃ -SCR activity of FeTiO _x catalyst: A microstructure analysis and reaction mechanistic study. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	5
29	Boosting the catalytic performance of single-atom catalysts by tuning surface lattice expanding confinement. <i>Chemical Communications</i> , 0, , .	2.2	1