Fudong Liu

List of Publications by Year
in descending order

104 papers	9,099 citations	38720 50 h-index	39638 94 g-index
108 all docs	108 docs citations	108 times ranked	5556 citing authors

#	ARTICLE	IF	CITATIONS
1	Alkaliâ€Metalâ€Promoted Pt/TiO₂ Opens a More Efficient Pathway to Formaldehyde Oxidation at Ambient Temperatures. Angewandte Chemie - International Edition, 2012, 51, 9628-9632.	7.2	611
2	Effect of manganese substitution on the structure and activity of iron titanate catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2009, 93, 194-204.	10.8	579
3	A superior Ce-W-Ti mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2012, 115-116, 100-106.	10.8	562
4	Novel ceriumâ€“tungsten mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Chemical Communications, 2011, 47, 8046.	2.2	335
5	Structureâˆ’Activity Relationship of Iron Titanate Catalysts in the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Journal of Physical Chemistry C, 2010, 114, 16929-16936.	1.5	304
6	Excellent Performance of One-Pot Synthesized Cu-SSZ-13 Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Environmental Science & Technology, 2014, 48, 566-572.	4.6	264
7	Selective catalytic reduction of NO with NH3 over iron titanate catalyst: Catalytic performance and characterization. Applied Catalysis B: Environmental, 2010, 96, 408-420.	10.8	258
8	Environmentally-benign catalysts for the selective catalytic reduction of NO_xfrom diesel engines: structureâ€“activity relationship and reaction mechanism aspects. Chemical Communications, 2014, 50, 8445-8463.	2.2	248
9	Influence of sulfation on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Applied Catalysis B: Environmental, 2011, 103, 369-377.	10.8	245
10	Manganeseâ€“niobium mixed oxide catalyst for the selective catalytic reduction of NOx with NH3 at low temperatures. Chemical Engineering Journal, 2014, 250, 390-398.	6.6	238
11	Respective Role of Fe and Mn Oxide Contents for Arsenic Sorption in Iron and Manganese Binary Oxide: An X-ray Absorption Spectroscopy Investigation. Environmental Science & Technology, 2014, 48, 10316-10322.	4.6	200
12	Significant Promotion Effect of Mo Additive on a Novel Ceâ€“Zr Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. ACS Applied Materials & Interfaces, 2015, 7, 9497-9506.	4.0	186
13	Selective catalytic reduction of NO with NH3 over manganese substituted iron titanate catalyst: Reaction mechanism and H2O/SO2 inhibition mechanism study. Catalysis Today, 2010, 153, 70-76.	2.2	183
14	The smart surface modification of Fe2O3 by WO for significantly promoting the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2018, 230, 165-176.	10.8	182
15	Mechanism of the selective catalytic reduction of NOx with NH3 over environmental-friendly iron titanate catalyst. Catalysis Today, 2011, 175, 18-25.	2.2	170
16	An environmentally-benign CeO2-TiO2 catalyst for the selective catalytic reduction of NO with NH3 in simulated diesel exhaust. Catalysis Today, 2012, 184, 160-165.	2.2	163
17	Promotional effect of Nb additive on the activity and hydrothermal stability for the selective catalytic reduction of NO with NH3 over CeZrO catalyst. Applied Catalysis B: Environmental, 2016, 180, 766-774.	10.8	158
18	Highly dispersed iron vanadate catalyst supported on TiO2 for the selective catalytic reduction of NOx with NH3. Journal of Catalysis, 2013, 307, 340-351.	3.1	149

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19	The Effects of Mn²⁺ Precursors on the Structure and Ozone Decomposition Activity of Cryptomelane-Type Manganese Oxide (OMS-2) Catalysts. Journal of Physical Chemistry C, 2015, 119, 23119-23126.	1.5	144
20	Novel iron titanate catalyst for the selective catalytic reduction of NO with NH3 in the medium temperature range. Chemical Communications, 2008, , 2043.	2.2	140
21	Novel MnWOx catalyst with remarkable performance for low temperature NH3-SCR of NOx. Catalysis Science and Technology, 2013, 3, 2699.	2.1	140
22	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	5.8	133
23	Effect of Fe on the photocatalytic removal of NO over visible light responsive Fe/TiO2 catalysts. Applied Catalysis B: Environmental, 2015, 179, 21-28.	10.8	124
24	The use of ceria for the selective catalytic reduction of NOx with NH3. Chinese Journal of Catalysis, 2014, 35, 1251-1259.	6.9	121
25	High hydrothermal stability of Cuâ€“SAPO-34 catalysts for the NH3-SCR of NOx. Chemical Engineering Journal, 2016, 294, 254-263.	6.6	121
26	Inhibitory effect of NO2 on the selective catalytic reduction of NOx with NH3 over one-pot-synthesized Cuâ€“SSZ-13 catalyst. Catalysis Science and Technology, 2014, 4, 1104.	2.1	119
27	NH₃-SCR Performance of Fresh and Hydrothermally Aged Fe-ZSM-5 in Standard and Fast Selective Catalytic Reduction Reactions. Environmental Science & Technology, 2013, 47, 3293-3298.	4.6	108
28	Effects of post-treatment method and Na co-cation on the hydrothermal stability of Cuâ€“SSZ-13 catalyst for the selective catalytic reduction of NO with NH3. Applied Catalysis B: Environmental, 2015, 179, 206-212.	10.8	105
29	The Remarkable Improvement of a Ceï£¿Ti based Catalyst for NO_{<i>x</i>} Abatement, Prepared by a Homogeneous Precipitation Method. ChemCatChem, 2011, 3, 1286-1289.	1.8	103
30	Influence of calcination temperature on iron titanate catalyst for the selective catalytic reduction of NOx with NH3. Catalysis Today, 2011, 164, 520-527.	2.2	98
31	Well-dispersed palladium supported on ordered mesoporous Co3O4 for catalytic oxidation of o-xylene. Applied Catalysis B: Environmental, 2013, 142-143, 72-79.	10.8	93
32	Enhanced Activity of Ti-Modified V₂O₅/CeO₂ Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Industrial & Engineering Chemistry Research, 2014, 53, 19506-19511.	1.8	88
33	One-pot synthesis of layered mesoporous ZSM-5 plus Cu ion-exchange: Enhanced NH3-SCR performance on Cu-ZSM-5 with hierarchical pore structures. Journal of Hazardous Materials, 2020, 385, 121593.	6.5	87
34	Recent advancement and future challenges of photothermal catalysis for VOCs elimination: From catalyst design to applications. Green Energy and Environment, 2023, 8, 654-672.	4.7	82
35	Magnetic coreâ€“shell Fe3O4@C-SO3H nanoparticle catalyst for hydrolysis of cellulose. Cellulose, 2013, 20, 127-134.	2.4	81
36	Promotional Effects of Ti on a CeO₂â€“MoO₃ Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. ACS Applied Materials & Interfaces, 2017, 9, 16951-16958.	4.0	78

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37	Effect of V₂O₅ Additive on the SO₂ Resistance of a Fe₂O₃/AC Catalyst for NH₃-SCR of NO_{<i>x</i>} at Low Temperatures. Industrial & Engineering Chemistry Research, 2016, 55, 2677-2685.	1.8	75
38	DRIFTS study of a Ceâ€"W mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Catalysis Science and Technology, 2015, 5, 2290-2299.	2.1	74
39	Nanostructured MoO3 for Efficient Energy and Environmental Catalysis. Molecules, 2020, 25, 18.	1.7	74
40	Gas phase sulfation of ceria-zirconia solid solutions for generating highly efficient and SO2 resistant NH3-SCR catalysts for NO removal. Journal of Hazardous Materials, 2020, 388, 121729.	6.5	72
41	Ceâ€"Si Mixed Oxide: A High Sulfur Resistant Catalyst in the NH₃â€"SCR Reaction through the Mechanism-Enhanced Process. Environmental Science & Technology, 2021, 55, 4017-4026.	4.6	66
42	Nature of Ag Species on Ag/Î³-Al₂O₃: A Combined Experimental and Theoretical Study. ACS Catalysis, 2014, 4, 2776-2784.	5.5	64
43	Adsorption-Induced Active Vanadium Species Facilitate Excellent Performance in Low-Temperature Catalytic NO_{<i>x</i>} Abatement. Journal of the American Chemical Society, 2021, 143, 10454-10461.	6.6	64
44	A highly efficient CeWO_x catalyst for the selective catalytic reduction of NO_x with NH₃. Catalysis Science and Technology, 2016, 6, 1195-1200.	2.1	63
45	Specific Metalâ€"Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. ACS Catalysis, 2018, 8, 5391-5398.	5.5	63
46	Dramatically Different Kinetics and Mechanism at Solid/Liquid and Solid/Gas Interfaces for Catalytic Isopropanol Oxidation over Size-Controlled Platinum Nanoparticles. Journal of the American Chemical Society, 2014, 136, 10515-10520.	6.6	60
47	A Nonoxide Catalyst System Study: Alkali Metal-Promoted Pt/AC Catalyst for Formaldehyde Oxidation at Ambient Temperature. ACS Catalysis, 2021, 11, 456-465.	5.5	60
48	Catalytic activity of Ru/Al2O3 for ozonation of dimethyl phthalate in aqueous solution. Chemosphere, 2007, 66, 145-150.	4.2	59
49	Environmental benign synthesis of Nano-SSZ-13 via FAU trans-crystallization: Enhanced NH3-SCR performance on Cu-SSZ-13 with nano-size effect. Journal of Hazardous Materials, 2020, 398, 122986.	6.5	58
50	Adjustment of operation temperature window of Mn-Ce oxide catalyst for the selective catalytic reduction of NO with NH3. Journal of Hazardous Materials, 2021, 405, 124223.	6.5	55
51	Improvement of Nb Doping on SO₂ Resistance of VO_{<i>x</i>}/CeO₂ Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Journal of Physical Chemistry C, 2017, 121, 7803-7809.	1.5	53
52	Elucidating the Nature of the Cu(I) Active Site in CuO/TiO₂ for Excellent Low-Temperature CO Oxidation. ACS Applied Materials & Interfaces, 2020, 12, 7091-7101.	4.0	51
53	Copper Single Atom-Triggered Niobiaâ€"Ceria Catalyst for Efficient Low-Temperature Reduction of Nitrogen Oxides. ACS Catalysis, 2022, 12, 2441-2453.	5.5	48
54	Comparing the Catalytic Oxidation of Ethanol at the Solidâ€"Gas and Solidâ€"Liquid Interfaces over Size-Controlled Pt Nanoparticles: Striking Differences in Kinetics and Mechanism. Nano Letters, 2014, 14, 6727-6730.	4.5	45

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55	Effect of preparation methods on the performance of CuFe-SSZ-13 catalysts for selective catalytic reduction of NOx with NH3. Journal of Environmental Sciences, 2019, 81, 195-204.	3.2	45
56	Revealing the effect of paired redox-acid sites on metal oxide catalysts for efficient NO removal by NH3-SCR. Journal of Hazardous Materials, 2021, 416, 125826.	6.5	43
57	Effect of Doping Metals on OMS-2/Î³-Al₂O₃ Catalysts for Plasma-Catalytic Removal of <i>o</i>-Xylene. Journal of Physical Chemistry C, 2016, 120, 6136-6144.	1.5	40
58	Effect of preparation methods on the activity of VO_x/CeO₂ catalysts for the selective catalytic reduction of NO_x with NH₃. Catalysis Science and Technology, 2015, 5, 389-396.	2.1	37
59	High-efficiency reduction of NO emission from diesel exhaust using a CeWO catalyst. Catalysis Communications, 2015, 59, 226-228.	1.6	36
60	Effect of CeO₂ for a high-efficiency CeO₂/WO₃â€“TiO₂ catalyst on N₂O formation in NH₃-SCR: a kinetic study. Catalysis Science and Technology, 2016, 6, 3149-3155.	2.1	36
61	Effects of Nanoparticle Size and Metal/Support Interactions in Pt-Catalyzed Methanol Oxidation Reactions in Gas and Liquid Phases. Catalysis Letters, 2014, 144, 1930-1938.	1.4	34
62	Nb-doped VO_x/CeO₂ catalyst for NH₃-SCR of NO_x at low temperatures. RSC Advances, 2015, 5, 37675-37681.	1.7	33
63	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie - International Edition, 2021, 60, 18309-18317.	7.2	32
64	XAFS Study on the Specific Deoxidation Behavior of Iron Titanate Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. ChemCatChem, 2013, 5, 3760-3769.	1.8	31
65	Improved and Reduced Performance of Cu- and Ni-Substituted Co₃O₄ Catalysts with Varying Co_{Oh}/Co_{Td} and Co³⁺/Co²⁺ Ratios for the Complete Catalytic Oxidation of VOCs. Environmental Science & Technology, 2022, 56, 9751-9761.	4.6	31
66	Deactivation Effects of Potassium on a CeMoTiO_{<i>x</i>} Catalyst for the Selective Catalytic Reduction of NO_{<i>x</i>} with NH₃. Industrial & Engineering Chemistry Research, 2018, 57, 1399-1407.	1.8	30
67	Highly efficient Pt catalyst on newly designed CeO2-ZrO2-Al2O3 support for catalytic removal of pollutants from vehicle exhaust. Chemical Engineering Journal, 2021, 426, 131855.	6.6	30
68	Highly Active and Stable Palladium Catalysts on Novel Ceriaâ€“Alumina Supports for Efficient Oxidation of Carbon Monoxide and Hydrocarbons. Environmental Science & Technology, 2021, 55, 7624-7633.	4.6	28
69	Tuning Singleâ€atom Pt₁âˆ’CeO₂ Catalyst for Efficient CO and C₃H₆ Oxidation: Size Effect of Ceria on Pt Structural Evolution. ChemNanoMat, 2020, 6, 1797-1805.	1.5	27
70	Hydrothermal Deactivation of Fe-ZSM-5 Prepared by Different Methods for the Selective Catalytic Reduction of NOx with NH3. Chinese Journal of Catalysis, 2012, 33, 454-464.	6.9	26
71	Identification of Fe and Zr oxide phases in an iron-zirconium binary oxide and arsenate complexes adsorbed onto their surfaces. Journal of Hazardous Materials, 2018, 353, 340-347.	6.5	26
72	An XAFS study on the specific microstructure of active species in iron titanate catalyst for NH3-SCR of NOx. Catalysis Today, 2013, 201, 131-138.	2.2	25

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73	Morphology-Sensitive Sulfation Effect on Ceria Catalysts for NH3-SCR. Topics in Catalysis, 2020, 63, 932-943.	1.3	24
74	Carbon Monoxide Oxidation over rGO-Mediated Gold/Cobalt Oxide Catalysts with Strong Metalâ€"Support Interaction. ACS Applied Materials & Interfaces, 2020, 12, 31467-31476.	4.0	24
75	W-Modified Mnâ€"Ti Mixed Oxide Catalyst for the Selective Catalytic Reduction of NO with NH₃. Industrial & Engineering Chemistry Research, 2018, 57, 9112-9119.	1.8	23
76	Structure-activity relationship of Pt catalyst on engineered ceria-alumina support for CO oxidation. Journal of Catalysis, 2022, 405, 236-248.	3.1	23
77	Effects of Adding CeO2 to Ag/Al2O3 Catalyst for Ammonia Oxidation at Low Temperatures. Chinese Journal of Catalysis, 2011, 32, 727-735.	6.9	22
78	The effect of Ce on a high-efficiency CeO₂/WO₃â€"TiO₂ catalyst for the selective catalytic reduction of NO_x with NH₃. RSC Advances, 2016, 6, 64803-64810.	1.7	21
79	Transformation of Highly Stable Pt Single Sites on Defect Engineered Ceria into Robust Pt Clusters for Vehicle Emission Control. Environmental Science & Technology, 2021, 55, 12607-12618.	4.6	21
80	Selective catalytic reduction of NOx by NH3 for heavy-duty diesel vehicles. Chinese Journal of Catalysis, 2014, 35, 1438-1445.	6.9	19
81	Molybdenum oxide as an efficient promoter to enhance the NH3-SCR performance of CeO2-SiO2 catalyst for NO removal. Catalysis Today, 2022, 397-399, 475-483.	2.2	19
82	Alcohol Oxidation at Platinumâ€"Gas and Platinumâ€"Liquid Interfaces: The Effect of Platinum Nanoparticle Size, Water Coadsorption, and Alcohol Concentration. Journal of Physical Chemistry C, 2017, 121, 7365-7371.	1.5	18
83	Engineering Platinum Catalysts <i>via</i> a Site-Isolation Strategy with Enhanced Chlorine Resistance for the Elimination of Multicomponent VOCs. Environmental Science & Technology, 2022, 56, 9672-9682.	4.6	17
84	Molecular Orientations Change Reaction Kinetics and Mechanism: A Review on Catalytic Alcohol Oxidation in Gas Phase and Liquid Phase on Size-Controlled Pt Nanoparticles. Catalysts, 2018, 8, 226.	1.6	16
85	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO₂ Reduction. Small, 2022, 18, e2107799.	5.2	13
86	Effect of surface acidity modulation on Pt/Al2O3 single atom catalyst for carbon monoxide oxidation and methanol decomposition. Catalysis Today, 2022, 402, 149-160.	2.2	12
87	U.S.â€"China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. Environmental Science & Technology, 2021, 55, 9622-9626.	4.6	10
88	Role of aggregated Fe oxo species in N2O decomposition over Fe/ZSM-5. Chinese Journal of Catalysis, 2014, 35, 1972-1981.	6.9	9
89	A direct sulfation method for introducing the transition metal cation Co2+ into ZrO2 with little change in the BrÃ¸nsted acid sites. Journal of Catalysis, 2011, 279, 301-309.	3.1	8
90	Catalytic 1-Propanol Oxidation on Size-Controlled Platinum Nanoparticles at Solidâ€"Gas and Solidâ€"Liquid Interfaces: Significant Differences in Kinetics and Mechanisms. Journal of Physical Chemistry C, 2019, 123, 7577-7583.	1.5	8

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91	Promotion Effect of Fe Species on SO₂ Resistance of Cu-SSZ-13 Catalysts for NO<i>_x</i> Reduction by NH₃. Industrial & Engineering Chemistry Research, 2022, 61, 8698-8707.	1.8	8
92	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie, 2021, 133, 18457-18465.	1.6	7
93	Nickel foam supported porous copper oxide catalysts with noble metal-like activity for aqueous phase reactions. Catalysis Science and Technology, 2022, 12, 3804-3816.	2.1	7
94	Highly efficient and anti-poisoning single-atom cobalt catalyst for selective hydrogenation of nitroarenes. Nano Research, 2022, 15, 10006-10013.	5.8	7
95	Ultralow Loading Ruthenium on Alumina Monoliths for Facile, Highly Recyclable Reduction of p-Nitrophenol. Catalysts, 2021, 11, 165.	1.6	6
96	CeO2 doping boosted low-temperature NH3-SCR activity of FeTiOx catalyst: A microstructure analysis and reaction mechanistic study. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	5
97	Research Progress in Vanadium-Free Catalysts for the Selective Catalytic Re-duction of NO with NH3. Chinese Journal of Catalysis, 2014, 32, 1113-1128.	6.9	4
98	Environmental-friendly catalysts for the selective catalytic reduction of NO_{<italic>x</italic>}. Scientia Sinica Chimica, 2012, 42, 446-468.	0.2	3
99	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO₂ Reduction (Small 16/2022). Small, 2022, 18, .	5.2	3
100	Role of active metals Cu, Co, and Ni on ceria towards CO2 thermo-catalytic hydrogenation. Reaction Kinetics, Mechanisms and Catalysis, 2021, 133, 699-711.	0.8	2
101	æŸ´æ²¹è½¦å°¾æ°”ä¸æ°®æ°§åŒ–ç‰©çš„å‚¬åŒ–å‡€åŒ–. Chinese Science Bulletin, 2014, 59, 2540-2549.	0.4	2
102	Boosting the catalytic performance of single-atom catalysts by tuning surface lattice expanding confinement. Chemical Communications, 0, , .	2.2	1
103	Emerging Applications of Environmentally Friendly Zeolites in the Selective Catalytic Reduction of Nitrogen Oxides. Green Chemistry and Sustainable Technology, 2016, , 393-434.	0.4	0
104	Catalysis and Nanomaterials for Sustainable Energy, Environment, and Industry: Special Issue for World Chemistry Forum 2019, Barcelona, Spain. Topics in Catalysis, 2020, 63, 777-777.	1.3	0