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	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
2	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
3	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
4	Structure-activity relationship of Pt catalyst on engineered ceria-alumina support for CO oxidation. Journal of Catalysis, 2022, 405, 236-248.	3.1	23
5	Copper Single Atom-Triggered Niobiaâ€“Ceria Catalyst for Efficient Low-Temperature Reduction of Nitrogen Oxides. ACS Catalysis, 2022, 12, 2441-2453.	5.5	48
6	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
7	General Synthetic Strategy to Ordered Mesoporous Carbon Catalysts with Singleâ€Atom Metal Sites for Electrochemical CO₂ Reduction. Small, 2022, 18, e2107799.	5.2	13
8	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
9	Highly efficient and anti-poisoning single-atom cobalt catalyst for selective hydrogenation of nitroarenes. Nano Research, 2022, 15, 10006-10013.	5.8	7
10	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
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	Thermal Unequilibrium of PdSn Intermetallic Nanocatalysts: From In Situ Tailored Synthesis to Unexpected Hydrogenation Selectivity. Angewandte Chemie, 2021, 133, 18457-18465.	1.6	7
23	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
24	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
25	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
26	Ultralow Loading Ruthenium on Alumina Monoliths for Facile, Highly Recyclable Reduction of p-Nitrophenol. Catalysts, 2021, 11, 165.	1.6	6
27	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
28	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
29	Nanostructured MoO3 for Efficient Energy and Environmental Catalysis. Molecules, 2020, 25, 18.	1.7	74
30	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
31	Morphology-Sensitive Sulfation Effect on Ceria Catalysts for NH3-SCR. Topics in Catalysis, 2020, 63, 932-943.	1.3	24
32	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
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	Specific Metalâ€“Support Interactions between Nanoparticle Layers for Catalysts with Enhanced Methanol Oxidation Activity. ACS Catalysis, 2018, 8, 5391-5398.	5.5	63
42	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
43	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
44	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
45	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
46	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
47	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
48	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
49	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
50	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
51	High hydrothermal stability of Cuâ€“SAPO-34 catalysts for the NH3-SCR of NOx. Chemical Engineering Journal, 2016, 294, 254-263.	6.6	121
52	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
53	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
54	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

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55	Two-dimensional gold nanostructures with high activity for selective oxidation of carbonâ€“hydrogen bonds. Nature Communications, 2015, 6, 6957.	5.8	133
56	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
57	Nb-doped VO_x/CeO₂ catalyst for NH₃-SCR of NO_x at low temperatures. RSC Advances, 2015, 5, 37675-37681.	1.7	33
58	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
59	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
60	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
61	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
62	High-efficiency reduction of NO emission from diesel exhaust using a CeWO catalyst. Catalysis Communications, 2015, 59, 226-228.	1.6	36
63	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
64	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
65	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
66	Role of aggregated Fe oxo species in N2O decomposition over Fe/ZSM-5. Chinese Journal of Catalysis, 2014, 35, 1972-1981.	6.9	9
67	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
68	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
69	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
70	Nature of Ag Species on Ag/Î³-Al₂O₃: A Combined Experimental and Theoretical Study. ACS Catalysis, 2014, 4, 2776-2784.	5.5	64
71	Selective catalytic reduction of NOx by NH3 for heavy-duty diesel vehicles. Chinese Journal of Catalysis, 2014, 35, 1438-1445.	6.9	19
72	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

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73	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
74	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
75	The use of ceria for the selective catalytic reduction of NOx with NH3. Chinese Journal of Catalysis, 2014, 35, 1251-1259.	6.9	121
76	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
77	æŸ´æ²¹è½¦å°¾æ°”ä¸æ°®æ°§åŒ–ç‰©çš„å‚¬åŒ–å‡€åŒ–. Chinese Science Bulletin, 2014, 59, 2540-2549.	0.4	2
78	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
79	Novel MnWOx catalyst with remarkable performance for low temperature NH3-SCR of NOx. Catalysis Science and Technology, 2013, 3, 2699.	2.1	140
80	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
81	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
82	Magnetic coreâ€“shell Fe3O4@C-SO3H nanoparticle catalyst for hydrolysis of cellulose. Cellulose, 2013, 20, 127-134.	2.4	81
83	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
84	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
85	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
86	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
87	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
88	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
89	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
90	Environmental-friendly catalysts for the selective catalytic reduction of NO_{<italic>x</italic>}. Scientia Sinica Chimica, 2012, 42, 446-468.	0.2	3

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91	Novel ceriumâ€“tungsten mixed oxide catalyst for the selective catalytic reduction of NOx with NH3. Chemical Communications, 2011, 47, 8046.	2.2	335
92	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
93	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
94	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
95	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
96	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
97	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
98	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
99	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
100	Structureâ^'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
101	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
102	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
103	Catalytic activity of Ru/Al2O3 for ozonation of dimethyl phthalate in aqueous solution. Chemosphere, 2007, 66, 145-150.	4.2	59
104	Boosting the catalytic performance of single-atom catalysts by tuning surface lattice expanding confinement. Chemical Communications, 0, , .	2.2	1