Zhichun Si

List of Publications by Year
in descending order

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85 papers	4,289 citations	101543 36 h-index	114465 63 g-index
85 all docs	85 docs citations	85 times ranked	3974 citing authors

#	Article	IF	Citations
1	Photoinduced hydroxyl radical and photocatalytic activity of samarium-doped TiO2 nanocrystalline. Journal of Hazardous Materials, 2008, 150, 62-67.	12.4	322
2	DRIFT Study of CuOâ€“CeO₂â€“TiO₂ Mixed Oxides for NO_x Reduction with NH₃ at Low Temperatures. ACS Applied Materials & Interfaces, 2014, 6, 8134-8145.	8.0	247
3	Impacts of niobia loading on active sites and surface acidity in NbO /CeO2â€“ZrO2 NH3â€“SCR catalysts. Applied Catalysis B: Environmental, 2015, 179, 380-394.	20.2	210
4	Solar photocatalytic degradation of methylene blue in carbon-doped TiO2 nanoparticles suspension. Solar Energy, 2008, 82, 706-713.	6.1	196
5	Structure, acidity and activity of CuOx/WOxâ€“ZrO2 catalyst for selective catalytic reduction of NO by NH3. Journal of Catalysis, 2010, 271, 43-51.	6.2	137
6	Solâ€“gel auto-combustion synthesis of samarium-doped TiO2 nanoparticles and their photocatalytic activity under visible light irradiation. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 137, 189-194.	3.5	133
7	NH3-SCR reaction mechanisms of NbO /Ce0.75Zr0.25O2 catalyst: DRIFTS and kinetics studies. Journal of Molecular Catalysis A, 2016, 423, 172-180.	4.8	123
8	Selective catalytic reduction of NO by ammonia over phosphate-containing Ce0.75Zr0.25O2 solids. Applied Catalysis B: Environmental, 2015, 163, 223-232.	20.2	121
9	Total oxidation of propane on Pt/WOx/Al2O3 catalysts by formation of metastable Ptî´+ species interacted with WOx clusters. Journal of Hazardous Materials, 2012, 225-226, 146-154.	12.4	102
10	Nb-modified Mn/Ce/Ti catalyst for the selective catalytic reduction of NO with NH 3 at low temperature. Applied Catalysis A: General, 2017, 545, 64-71.	4.3	99
11	Effects of WOx modification on the activity, adsorption and redox properties of CeO2 catalyst for NOx reduction with ammonia. Journal of Environmental Sciences, 2012, 24, 1305-1316.	6.1	97
12	Influences of impregnation procedure on the SCR activity and alkali resistance of V2O5â€“WO3/TiO2 catalyst. Applied Surface Science, 2013, 283, 209-214.	6.1	97
13	Evolution of copper species on Cu/SAPO-34 SCR catalysts upon hydrothermal aging. Catalysis Today, 2017, 281, 596-604.	4.4	92
14	Synergistic effect of CeO 2 modified TiO 2 photocatalyst on the enhancement of visible light photocatalytic performance. Journal of Alloys and Compounds, 2017, 714, 560-566.	5.5	88
15	Rare earth containing catalysts for selective catalytic reduction of NOx with ammonia: A Review. Journal of Rare Earths, 2014, 32, 907-917.	4.8	87
16	Modifications of CeO2â€“ZrO2 solid solutions by nickel and sulfate as catalysts for NO reduction with ammonia in excess O2. Catalysis Communications, 2010, 11, 1045-1048.	3.3	85
17	Low-temperature SCR activity and SO2 deactivation mechanism of Ce-modified V2O5â€“WO3/TiO2 catalyst. Progress in Natural Science: Materials International, 2015, 25, 342-352.	4.4	85
18	Lattice oxygen mobility and acidity improvements of NiOâ€“CeO2â€“ZrO2 catalyst by sulfation for NOx reduction by ammonia. Catalysis Today, 2013, 201, 122-130.	4.4	83

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19	A novel Nbâ€“Ce/WO â€“TiO2 catalyst with high NH3-SCR activity and stability. Catalysis Communications, 2012, 27, 97-100.	3.3	80
20	IR characterization of propane oxidation on Pt/CeO2â€“ZrO2: The reaction mechanism and the role of Pt. Journal of Molecular Catalysis A, 2012, 356, 100-105.	4.8	73
21	Synergistic effect between ceria and tungsten oxide on WO3â€“CeO2â€“TiO2 catalysts for NH3-SCR reaction. Progress in Natural Science: Materials International, 2012, 22, 265-272.	4.4	66
22	NH3-SCR activity, hydrothermal stability, sulfur resistance and regeneration of Ce0.75Zr0.25O2â€“PO43â^'catalyst. Catalysis Communications, 2012, 17, 146-149.	3.3	63
23	Localized Surface Plasmon Resonance Assisted Photothermal Catalysis of CO and Toluene Oxidation over Pdâ€“CeO₂ Catalyst under Visible Light Irradiation. Journal of Physical Chemistry C, 2016, 120, 29116-29125.	3.1	62
24	Potassium poisoning on Cu-SAPO-34 catalyst for selective catalytic reduction of NOx with ammonia. Chemical Engineering Journal, 2015, 267, 191-200.	12.7	57
25	Atomic palladium on graphitic carbon nitride as a hydrogen evolution catalyst under visible light irradiation. Communications Chemistry, 2019, 2, .	4.5	57
26	SmMn2O5 catalysts modified with silver for soot oxidation: Dispersion of silver and distortion of mullite. Applied Catalysis B: Environmental, 2020, 273, 119058.	20.2	56
27	Characterization and photocatalytic activity of Sm3+-doped TiO2 nanocrystalline prepared by low temperature combustion method. Journal of Alloys and Compounds, 2008, 450, 426-431.	5.5	50
28	Synthesis, characterization and photocatalytic activity of porous WO3/TiO2 hollow microspheres. Applied Surface Science, 2014, 313, 470-478.	6.1	48
29	Effects of silica additive on the NH 3 -SCR activity and thermal stability of a V 2 O 5 /WO 3 -TiO 2 catalyst. Chinese Journal of Catalysis, 2016, 37, 1340-1346.	14.0	47
30	Effects of WO3 doping on stability and N2O escape of MnO â€“CeO2 mixed oxides as a low-temperature SCR catalyst. Catalysis Communications, 2015, 69, 188-192.	3.3	43
31	Chemical deactivation of V2O5-WO3/TiO2 SCR catalyst by combined effect of potassium and chloride. Frontiers of Environmental Science and Engineering, 2013, 7, 420-427.	6.0	42
32	Effects of cerium and vanadium on the activity and selectivity of MnOx-TiO2 catalyst for low-temperature NH3-SCR. Journal of Rare Earths, 2011, 29, 64-68.	4.8	41
33	A comprehensive study on sulfur tolerance of niobia modified CeO2/WO3-TiO2 catalyst for low-temperature NH3-SCR. Applied Catalysis A: General, 2019, 580, 121-130.	4.3	40
34	Potassium deactivation of Cu-SSZ-13 catalyst for NH3-SCR: Evolution of salts, zeolite and copper species. Chemical Engineering Journal, 2020, 383, 123080.	12.7	40
35	Synergistic effects between copper and tungsten on the structural and acidic properties of CuOx/WOxâ€“ZrO2 catalyst. Catalysis Science and Technology, 2011, 1, 453.	4.1	39
36	Relationships between copper speciation and BrÃ¸nsted acidity evolution over Cu-SSZ-13 during hydrothermal aging. Applied Catalysis A: General, 2020, 602, 117650.	4.3	38

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37	CoMoS2/rGO/C3N4 ternary heterojunctions catalysts with high photocatalytic activity and stability for hydrogen evolution under visible light irradiation. Applied Surface Science, 2018, 435, 1296-1306.	6.1	37
38	Low-Temperature Solid-State Ion-Exchange Method for Preparing Cu-SSZ-13 Selective Catalytic Reduction Catalyst. ACS Catalysis, 2019, 9, 6962-6973.	11.2	37
39	Modification of CeO2-ZrO2 catalyst by potassium for NOx-assisted soot oxidation. Journal of Environmental Sciences, 2011, 23, 145-150.	6.1	36
40	Participation of sulfates in propane oxidation on Pt/SO42â^'/CeO2â€“ZrO2 catalyst. Journal of Molecular Catalysis A, 2012, 361-362, 98-103.	4.8	35
41	Facile synthesis of hierarchical porous Î³-Al2O3 hollow microspheres for water treatment. Journal of Colloid and Interface Science, 2014, 417, 369-378.	9.4	35
42	Critical roles of Cu(OH)2 in low-temperature moisture-induced degradation of Cu-SAPO-34 SCR catalyst: Correlating reversible and irreversible deactivation. Applied Catalysis B: Environmental, 2020, 278, 119306.	20.2	35
43	Durability of Cu/SAPO-34 catalyst for NO reduction by ammonia: Potassium and sulfur poisoning. Catalysis Communications, 2015, 59, 35-39.	3.3	33
44	Synthesizing multilayer graphene from amorphous activated carbon via ammonia-assisted hydrothermal method. Carbon, 2019, 152, 24-32.	10.3	33
45	Effect of water vapor on NH3â€“NO/NO2 SCR performance of fresh and aged MnOxâ€“NbOxâ€“CeO2 catalysts. Journal of Environmental Sciences, 2015, 31, 240-247.	6.1	32
46	In situ synthesized MoS2/Ag dots/Ag3PO4 Z-scheme photocatalysts with ultrahigh activity for oxygen evolution under visible light irradiation. Applied Surface Science, 2018, 450, 441-450.	6.1	30
47	Noble metal-free NiS/P-S codoped g-C3N4 photocatalysts with strong visible light absorbance and enhanced H2 evolution activity. Catalysis Communications, 2018, 106, 55-59.	3.3	30
48	Pdâ€“Ag@CeO₂ Catalyst of Coreâ€“Shell Structure for Low Temperature Oxidation of Toluene Under Visible Light Irradiation. Journal of Physical Chemistry C, 2019, 123, 1761-1769.	3.1	30
49	Effects of samarium dopant on photocatalytic activity of TiO2 nanocrystallite for methylene blue degradation. Journal of Materials Science, 2007, 42, 9194-9199.	3.7	28
50	Facile synthesis of NaOH-promoted Pt/TiO2 catalysts for toluene oxidation under visible light irradiation. Applied Surface Science, 2019, 469, 246-252.	6.1	28
51	Improved hydrothermal durability of Cu-SSZ-13 NH3-SCR catalyst by surface Al modification: Affinity and passivation. Journal of Catalysis, 2022, 405, 199-211.	6.2	28
52	NOx-assisted soot oxidation over K/CuCe catalyst. Journal of Rare Earths, 2010, 28, 542-546.	4.8	26
53	A novel Au/r-GO/TNTs electrode for H2O2, O2 and nitrite detection. Sensors and Actuators B: Chemical, 2016, 234, 264-272.	7.8	23
54	Highly dispersed iron species created on alkali-treated zeolite for ammonia SCR. Progress in Natural Science: Materials International, 2013, 23, 493-500.	4.4	22

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55	Optimizing the crystallinity and acidity of H-SAPO-34 by fluoride for synthesizing Cu/SAPO-34 NH3-SCR catalyst. Journal of Environmental Sciences, 2016, 41, 244-251.	6.1	22
56	Ni single atoms anchored on nitrogen-doped graphene as H2-Evolution cocatalyst of SrTiO3(Al)/CoO for photocatalytic overall water splitting. Carbon, 2021, 183, 763-773.	10.3	22
57	Tailored temperature window of MnOx-CeO2 SCR catalyst by addition of acidic metal oxides. Chinese Journal of Catalysis, 2014, 35, 1281-1288.	14.0	21
58	Direct ink writing of porous cordierite honeycomb ceramic. Ceramics International, 2019, 45, 15230-15236.	4.8	21
59	Quantitative control and identification of copper species in Cuâ€“SAPO-34: a combined UVâ€“vis spectroscopic and H2-TPR analysis. Research on Chemical Intermediates, 2019, 45, 1309-1325.	2.7	21
60	An isolation strategy to anchor atomic Ni or Co cocatalysts on TiO2(A) for photocatalytic hydrogen production. Nano Research, 2022, 15, 5848-5856.	10.4	20
61	Hydrothermal stability of MOx-Ce0.75Zr0.25O2 catalysts for NOx reduction by ammonia. Journal of Rare Earths, 2013, 31, 1148-1156.	4.8	19
62	Decomposition behavior of ammonium nitrate on ceria catalysts and its role in the NH₃-SCR reaction. Catalysis Science and Technology, 2017, 7, 2531-2541.	4.1	19
63	NH₃-SCR activity, hydrothermal stability and poison resistance of a zirconium phosphate/Ce_{0.5}Zr_{0.5}O₂ catalyst in simulated diesel exhaust. RSC Advances, 2015, 5, 83594-83599.	3.6	18
64	Roles of Lewis and BrÃ¸nsted acid sites in NO reduction with ammonia on CeO2-ZrO2-NiO-SO42â˜ catalyst. Journal of Rare Earths, 2010, 28, 727-731.	4.8	17
65	MOF-derived (MoS₂, Î³-Fe₂O₃)/graphene Z-scheme photocatalysts with excellent activity for oxygen evolution under visible light irradiation. RSC Advances, 2020, 10, 17154-17162.	3.6	17
66	Nitrogen doped graphene quantum dots as a cocatalyst of SrTiO₃(Al)/CoO_x for photocatalytic overall water splitting. Catalysis Science and Technology, 2021, 11, 3039-3046.	4.1	17
67	Graphene quantum dots piecing together into graphene on nano Au for overall water splitting. Carbon, 2021, 178, 265-272.	10.3	17
68	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. Journal of Environmental Sciences, 2020, 94, 64-71.	6.1	14
69	Effect of lean-oxygen treatment on the adsorption and activity of zirconium phosphate @ Ce0.75Z0.25O2 for NH3-SCR deNO. Catalysis Today, 2016, 267, 47-55.	4.4	13
70	Migration, reactivity, and sulfur tolerance of copper species in SAPO-34 zeolite toward NO_x reduction with ammonia. RSC Advances, 2017, 7, 37787-37796.	3.6	13
71	Quasi-operando quantification of Cu(<scp>ii</scp>) ions in Cu-SSZ-13 catalyst by an NH₃ temperature-programmed reduction method. Chemical Communications, 2021, 57, 1891-1894.	4.1	13
72	High-surface-area SmMn2O5 nanosheets with crystal orientation for propane combustion: A facile microwave-assisted hydrothermal method. Fuel, 2021, 306, 121685.	6.4	11

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73	Comparative study of La1â€“Ce MnO3+ perovskites and Mnâ€“Ce mixed oxides for NO catalytic oxidation. Journal of Rare Earths, 2020, 38, 863-872.	4.8	10
74	Facile method of synthesizing multilayer graphene capsuled sulfur nanoparticles for water treatment. Applied Surface Science, 2020, 502, 144194.	6.1	9
75	A Facile One Step Synthesis of MoS2/g-C3N4 Photocatalyst with Enhanced Visible Light Photocatalytic Hydrogen Production. Catalysis Letters, 2022, 152, 972-979.	2.6	8
76	Deactivation of Cu-SAPO-34 by urea-related deposits at low temperatures and the regeneration. Journal of Environmental Sciences, 2019, 81, 43-51.	6.1	7
77	Stable Pt atomic clusters on carbon nanotubes grafted with carbon quantum dots as electrocatalyst for H₂ evolution in acidic electrolyte. Nano Select, 2021, 2, 2126-2134.	3.7	7
78	The synthesis, activity, stability and the charge transfer identification of Ag:AgBr/Î³-Al2O3 photocatalyst for organic pollutant decomposition in water. Applied Surface Science, 2015, 357, 1792-1800.	6.1	6
79	Pt@g-C3N4/CeO2 photocatalyst for the remediation of low concentration NO at room temperature. Progress in Natural Science: Materials International, 2020, 30, 308-311.	4.4	6
80	Deposition of Potassium Salts on Soot Oxidation Activity of Cu-SSZ-13 as a SCRF Catalyst: Laboratory Study. Catalysis Surveys From Asia, 2020, 24, 250-258.	2.6	5
81	A strategy to construct a highly active Co_xP/SrTiO₃(Al) catalyst to boost the photocatalytic overall water splitting reactions. Nanoscale, 2022, 14, 2427-2433.	5.6	5
82	Tailored temperature window of CuOx/WOxâ€“ZrO2 for NOx reduction via adjusting the calcination temperature of WOxâ€“ZrO2. Materials Chemistry and Physics, 2013, 138, 399-404.	4.0	3
83	Combining Cu-SSZ-13 with TiO₂: promotion of urea decomposition and influence on SCR. Reaction Chemistry and Engineering, 2022, 7, 2121-2131.	3.7	2
84	Sub-Nano Pt/Î²-FeOOH Quantum Dots for Photocatalytic Removal of Toluene: Catalyst Design, Preparation, and Benefits. Frontiers in Materials, 0, 9, .	2.4	2
85	Tungsten Oxide Modified V2O5-Sb2O3/TiO2 Monolithic Catalyst: NH3-SCR Activity and Sulfur Resistance. Processes, 2022, 10, 1333.	2.8	0