

Runduo Zhang

List of Publications by Year in descending order

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81
papers

3,722
citations

136950

32
h-index

133252

59
g-index

84
all docs

84
docs citations

84
times ranked

3398
citing authors

#	ARTICLE	IF	CITATIONS
1	N/Ce doped graphene supported Pt nanoparticles for the catalytic oxidation of formaldehyde at room temperature. <i>Journal of Environmental Sciences</i> , 2023, 125, 135-147.	6.1	6
2	Significant promotion of reducing treatment on Pd/TS-1 zeolite for formaldehyde catalytic purification at ambient temperature. <i>Applied Catalysis B: Environmental</i> , 2022, 304, 120843.	20.2	26
3	Facet control of manganese oxides with diverse redox abilities and acidities for catalytically removing hazardous 1,2-dichloroethane. <i>Materials Advances</i> , 2022, 3, 1101-1114.	5.4	1
4	ZSM-5 core-shell structured catalyst for enhancing low-temperature NH ₃ -SCR efficiency and poisoning resistance. <i>Applied Catalysis A: General</i> , 2022, 630, 118438.	4.3	19
5	Role of Al pairs on effective N ₂ O decomposition over the ZSM-5 zeolite catalyst. <i>Catalysis Today</i> , 2022, 402, 17-26.	4.4	6
6	Solvent-free Thermal Synthesis of Extra-large-pore Aluminophosphate Zeotype via Self-assembly of Double-four-ring Unit. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	3
7	Modulating local environment of Ni with W for synthesis of carbon nanotubes and hydrogen from plastics. <i>Journal of Cleaner Production</i> , 2022, 352, 131620.	9.3	11
8	In Situ Fabrication of Ultrasmall Ni Nanoparticles from Ni(OH) ₂ Precursors for Efficient CO ₂ Reforming of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 198-206.	3.7	12
9	Role of the exposure facets upon diverse morphologies of cobalt spinels on catalytic deN ₂ O process. <i>Catalysis Today</i> , 2021, 376, 177-187.	4.4	8
10	Ce-promoted Mn/ZSM-5 catalysts for highly efficient decomposition of ozone. <i>Journal of Environmental Sciences</i> , 2021, 103, 219-228.	6.1	26
11	Selective catalytic reduction of NO _x with NH ₃ : opportunities and challenges of Cu-based small-pore zeolites. <i>National Science Review</i> , 2021, 8, nwab010.	9.5	137
12	Highly Efficient NO Abatement over Cu-ZSM-5 with Special Nanosheet Features. <i>Environmental Science & Technology</i> , 2021, 55, 5422-5434.	10.0	42
13	Terminal Hydroxyl Groups on Al ₂ O ₃ Supports Influence the Valence State and Dispersion of Ag Nanoparticles: Implications for Ozone Decomposition. <i>ACS Omega</i> , 2021, 6, 10715-10722.	3.5	7
14	lonothermal synthesis, physicochemical characterization and catalytic performance of extra-large-pore silicoaluminophosphate zeotype with -CLO structure. <i>Journal of Porous Materials</i> , 2021, 28, 1585-1594.	2.6	4
15	Morphology effect of diverse ceria with active tungsten species on NH ₃ -SCR behaviors. <i>Catalysis Today</i> , 2020, 339, 241-253.	4.4	25
16	Effective catalytic abatement of indoor formaldehyde at room temperature over TS-1 supported platinum with relatively low content. <i>Catalysis Today</i> , 2020, 355, 547-554.	4.4	20
17	Detrimental role of residual surface acid ions on ozone decomposition over Ce-modified γ -MnO ₂ under humid conditions. <i>Journal of Environmental Sciences</i> , 2020, 91, 43-53.	6.1	34
18	CO ₂ Reforming of Methane over a Highly Dispersed Ni/Mg-Al-O Catalyst Prepared by a Facile and Green Method. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 15506-15514.	3.7	34

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19	Synergies of Mn oxidative ability and ZSM-5 acidity for 1, 2-dichloroethane catalytic elimination. <i>Applied Catalysis B: Environmental</i> , 2020, 276, 118922.	20.2	60
20	Strategy on Effective Synthesis of SSZ-13 Zeolite Aiming at Outstanding Performances for NH ₃ -SCR Process. <i>Catalysis Surveys From Asia</i> , 2020, 24, 143-155.	2.6	13
21	Selective catalytic oxidation of ammonia over nano Cu/zeolites with different topologies. <i>Environmental Science: Nano</i> , 2020, 7, 1399-1414.	4.3	24
22	Encapsulating uniform Pd nanoparticles in TS-1 zeolite as efficient catalyst for catalytic abatement of indoor formaldehyde at room temperature. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119311.	20.2	48
23	Pt Nanoparticles Supported on N/Ce-Doped Activated Carbon for the Catalytic Oxidation of Formaldehyde at Room Temperature. <i>ACS Applied Nano Materials</i> , 2020, 3, 2614-2624.	5.0	45
24	Core-shell structure effect on CeO ₂ and TiO ₂ supported WO ₃ for the NH ₃ -SCR process. <i>Molecular Catalysis</i> , 2020, 485, 110822.	2.0	17
25	Facile ionothermal synthesis of SAPO-LTA zeotypes with high structural stability and their catalytic performance in MTO reaction. <i>Microporous and Mesoporous Materials</i> , 2019, 288, 109611.	4.4	20
26	Highly active OMS-2 for catalytic ozone decomposition under humid conditions. <i>Petroleum Science</i> , 2019, 16, 912-919.	4.9	21
27	Mechanistic insight into the methanol selective catalytic reduction of NO reaction over Cu-containing perovskites. <i>Journal of Catalysis</i> , 2019, 377, 480-493.	6.2	14
28	Synergistic effect of niobium and ceria on anatase for low-temperature NH ₃ -SCR of NO process. <i>Molecular Catalysis</i> , 2019, 478, 110563.	2.0	11
29	Ionothermal Synthesis of Germanosilicate Zeolites Constructed with Double- β -Ring Structure-Building Units in the Presence of Organic Base. <i>Chemistry - an Asian Journal</i> , 2019, 14, 621-626.	3.3	10
30	Morphology-Oriented ZrO ₂ -Supported Vanadium Oxide for the NH ₃ -SCR Process: Importance of Structural and Textural Properties. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22240-22254.	8.0	35
31	Facile synthesis of Ag-modified manganese oxide for effective catalytic ozone decomposition. <i>Journal of Environmental Sciences</i> , 2019, 80, 159-168.	6.1	38
32	Zeolite structure effects on Cu active center, SCR performance and stability of Cu-zeolite catalysts. <i>Catalysis Today</i> , 2019, 327, 295-307.	4.4	96
33	Highly selective catalytic combustion of acrylonitrile towards nitrogen over Cu-modified zeolites. <i>Catalysis Today</i> , 2019, 332, 201-213.	4.4	21
34	Synthesis of CuO catalyst derived from HKUST-1 temple for the low-temperature NH ₃ -SCR process. <i>Catalysis Today</i> , 2018, 314, 122-128.	4.4	65
35	Oxygen Vacancies Induced by Transition Metal Doping in γ -MnO ₂ for Highly Efficient Ozone Decomposition. <i>Environmental Science & Technology</i> , 2018, 52, 12685-12696.	10.0	236
36	Mechanistic insight into selective catalytic combustion of acrylonitrile (C ₂ H ₃ CN): NCO formation and its further transformation towards N ₂ . <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7971-7979.	2.8	14

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37	New evidence on the correlation between lattice fringe with catalytic performance for suprafacial CO and intrafacial CH ₄ oxidations over Co ₃ O ₄ by isotopic ¹⁸ O ₂ exchange. <i>Molecular Catalysis</i> , 2017, 437, 26-36.	2.0	9
38	Selective catalytic combustion of hydrogen cyanide over metal modified zeolite catalysts: From experiment to theory. <i>Catalysis Today</i> , 2017, 297, 201-210.	4.4	19
39	Influence of the oxide support reducibility on the CO ₂ methanation over Ru-based catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 219, 715-726.	20.2	179
40	Mechanistic insight into selective catalytic combustion of HCN over Cu-BEA: influence of different active center structures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23960-23970.	2.8	6
41	Efficiency of Cu and Pd substitution in Fe-based perovskites to promote N ₂ formation during NH ₃ selective catalytic oxidation (NH ₃ -SCO). <i>Applied Catalysis B: Environmental</i> , 2017, 203, 174-188.	20.2	91
42	N ₂ O Direct Dissociation over Mg _x Ce _y Co _{1-x-y} Co ₂ O ₄ Composite Spinel Metal Oxide. <i>Catalysts</i> , 2017, 7, 10.	3.5	5
43	Synthesis of TiO ₂ with diverse morphologies as supports of manganese catalysts for CO oxidation. <i>Applied Petrochemical Research</i> , 2016, 6, 89-96.	1.3	3
44	Insight into the mechanism of catalytic combustion of acrylonitrile over Cu-doped perovskites by an experimental and theoretical study. <i>Applied Catalysis B: Environmental</i> , 2016, 196, 142-154.	20.2	50
45	M(Fe, Co)-BEA washcoated honeycomb cordierite for N ₂ O direct decomposition. <i>Catalysis Today</i> , 2016, 273, 273-285.	4.4	18
46	Selective Transformation of Various Nitrogen-Containing Exhaust Gases toward N ₂ over Zeolite Catalysts. <i>Chemical Reviews</i> , 2016, 116, 3658-3721.	47.7	345
47	Template Design and Economical Strategy for the Synthesis of SSZ-13 (CHA-Type) Zeolite as an Excellent Catalyst for the Selective Catalytic Reduction of NO _x by Ammonia. <i>ChemCatChem</i> , 2015, 7, 3842-3847.	3.7	40
48	Template Design and Economical Strategy for the Synthesis of SSZ-13 (CHA-Type) Zeolite as an Excellent Catalyst for the Selective Catalytic Reduction of NO _x by Ammonia. <i>ChemCatChem</i> , 2015, 7, 3792-3792.	3.7	2
49	Catalytic purification of acrylonitrile-containing exhaust gases from petrochemical industry by metal-doped mesoporous zeolites. <i>Catalysis Today</i> , 2015, 258, 17-27.	4.4	17
50	The Effects of Mn ²⁺ Precursors on the Structure and Ozone Decomposition Activity of Cryptomelane-Type Manganese Oxide (OMS-2) Catalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23119-23126.	3.1	144
51	Catalytic behaviors of chloromethane combustion over the metal-modified ZSM-5 zeolites with diverse SiO ₂ /Al ₂ O ₃ ratios. <i>Journal of Molecular Catalysis A</i> , 2015, 398, 223-230.	4.8	31
52	A Remarkable Catalyst Combination to Widen the Operating Temperature Window of the Selective Catalytic Reduction of NO by NH ₃ . <i>ChemCatChem</i> , 2014, 6, 2263-2269.	3.7	11
53	Mesoporous SBA-15 promoted by 3d-transition and noble metals for catalytic combustion of acetonitrile. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 79-93.	20.2	82
54	Selective catalytic oxidation of ammonia to nitrogen over orderly mesoporous CuFe ₂ O ₄ with high specific surface area. <i>Science Bulletin</i> , 2014, 59, 3980-3986.	1.7	27

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55	Economical Way to Synthesize SSZ-13 with Abundant Ion-Exchanged Cu ⁺ for an Extraordinary Performance in Selective Catalytic Reduction (SCR) of NO _x by Ammonia. <i>Environmental Science & Technology</i> , 2014, 48, 13909-13916.	10.0	195
56	Effect of hard-template residues of the nanocasted mesoporous LaFeO ₃ with extremely high surface areas on catalytic behaviors for methyl chloride oxidation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 17329-17340.	10.3	34
57	A Remarkable Catalyst Combination to Widen the Operating Temperature Window of the Selective Catalytic Reduction of NO by NH ₃ . <i>ChemCatChem</i> , 2014, 6, 2143-2143.	3.7	1
58	Local Electric Field Effect of TMI (Fe, Co, Cu)-BEA on N ₂ O Direct Dissociation. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10944-10956.	3.1	27
59	Low-temperature NH ₃ -SCR of NO by lanthanum manganite perovskites: Effect of A-/B-site substitution and TiO ₂ /CeO ₂ support. <i>Applied Catalysis B: Environmental</i> , 2014, 146, 94-104.	20.2	129
60	Low-temperature selective catalytic reduction of NO with NH ₃ using perovskite-type oxides as the novel catalysts. <i>Journal of Molecular Catalysis A</i> , 2013, 371, 86-93.	4.8	51
61	Transfer and Reaction Performances of Selective Catalytic Reduction of N ₂ O with CO over Monolith Catalysts. <i>Chinese Journal of Chemical Engineering</i> , 2013, 21, 835-843.	3.5	2
62	CO catalytic combustion over Co/Al ₂ O ₃ : Influence of diverse textural properties of alumina supports on the related oxidation activities. <i>Catalysis Today</i> , 2013, 216, 169-177.	4.4	15
63	Design of nanocrystalline mixed oxides with improved oxygen mobility: a simple non-aqueous route to nano-LaFeO ₃ and the consequences on the catalytic oxidation performances. <i>Chemical Communications</i> , 2013, 49, 4923.	4.1	25
64	Reduction of N ₂ O by CO over Fe- and Cu-BEA zeolites: An experimental and computational study of the mechanism. <i>Microporous and Mesoporous Materials</i> , 2013, 167, 254-266.	4.4	23
65	Comparative study on the direct decomposition of nitrous oxide over M (Fe, Co, Cu)-BEA zeolites. <i>Journal of Catalysis</i> , 2012, 294, 99-112.	6.2	85
66	Activity of perovskite-type mixed oxides for the low-temperature CO oxidation: Evidence of oxygen species participation from the solid. <i>Journal of Catalysis</i> , 2012, 295, 45-58.	6.2	72
67	New Aspects on the Mechanism of C ₃ H ₆ Selective Catalytic Reduction of NO in the Presence of O ₂ over LaFe _{1-x} (Cu) _x (Cu, Fe) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 Td (Pd 46. 11280-11288.	10.0	64
68	Density Functional Theory Study of Mechanism of N ₂ O Decomposition over Cu-ZSM-5 Zeolites. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20262-20268.	3.1	26
69	NiO microspheres with tunable porosity and morphology effects for CO oxidation. <i>Catalysis Science and Technology</i> , 2011, 1, 999.	4.1	25
70	Charge Transfer Analysis on the Direct Decomposition of Nitrous Oxide over Fe-BEA Zeolite: An Experimental and Density Functional Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12883-12890.	3.1	25
71	Study on the direct decomposition of nitrous oxide over Fe-beta zeolites: From experiment to theory. <i>Catalysis Today</i> , 2011, 175, 245-255.	4.4	31
72	The reaction of NO+C ₃ H ₆ +O ₂ over the mesoporous SBA-15 supported transition metal catalysts. <i>Catalysis Today</i> , 2011, 175, 26-33.	4.4	33

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73	Catalytic reduction of NO by CO over Cu/CexZr1-xO2 prepared by flame synthesis. Journal of Catalysis, 2010, 272, 210-219.	6.2	129
74	Soot Combustion over Lanthanum Cobaltites and Related Oxides for Diesel Exhaust Treatment. Energy & Fuels, 2010, 24, 3719-3726.	5.1	47
75	The Influence of O2, Hydrocarbons, CO, H2, NO x , SO2, and Water Vapor Molecules on Soot Combustion over LaCoO3 Perovskite. Catalysis Letters, 2009, 132, 10-15.	2.6	10
76	SO2 poisoning of LaFe0.8Cu0.2O3 perovskite prepared by reactive grinding during NO reduction by C3H6. Applied Catalysis A: General, 2008, 340, 140-151.	4.3	57
77	Lean reduction of NO by C3H6 over Ag/alumina derived from Al2O3, AlOOH and Al(OH)3. Applied Catalysis B: Environmental, 2008, 78, 275-287.	20.2	44
78	Water vapor sensitivity of nanosized La(Co, Mn, Fe)1-x(Cu, Pd)xO3 perovskites during NO reduction by C3H6 in the presence of oxygen. Applied Catalysis B: Environmental, 2007, 72, 331-341.	20.2	35
79	SCR of NO by propene over nanoscale LaMn1-xCuxO3 perovskites. Applied Catalysis A: General, 2006, 307, 85-97.	4.3	69
80	Reduction of NO by CO over nanoscale LaCo1-xCuxO3 and LaMn1-xCuxO3 perovskites. Journal of Molecular Catalysis A, 2006, 258, 22-34.	4.8	96
81	Catalytic reduction of NO by propene over LaCo1-xCuxO3 perovskites synthesized by reactive grinding. Applied Catalysis B: Environmental, 2006, 64, 220-233.	20.2	84