Rui Ran

List of Publications by Year
in descending order

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		196777	223390
74	2,710	29	49
papers	citations	h-index	g-index

74	74	74	3430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Progress on metal-support interactions in Pd-based catalysts for automobile emission control. Journal of Environmental Sciences, 2023, 125, 401-426.	3.2	21
2	A Facile One Step Synthesis of MoS2/g-C3N4 Photocatalyst with Enhanced Visible Light Photocatalytic Hydrogen Production. Catalysis Letters, 2022, 152, 972-979.	1.4	8
3	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.	2.8	5
4	Effects of MoO on dispersion of vanadia and low-temperature NH3-SCR activity of titania supported catalysts: Liquid acidity and steric hindrance. Applied Surface Science, 2022, 585, 152710.	3.1	7
5	An isolation strategy to anchor atomic Ni or Co cocatalysts on TiO2(A) for photocatalytic hydrogen production. Nano Research, 2022, 15, 5848-5856.	5.8	20
6	Combining Cu-SSZ-13 with TiO₂: promotion of urea decomposition and influence on SCR. Reaction Chemistry and Engineering, 2022, 7, 2121-2131.	1.9	2
7	Tungsten Oxide Modified V2O5-Sb2O3/TiO2 Monolithic Catalyst: NH3-SCR Activity and Sulfur Resistance. Processes, 2022, 10, 1333.	1.3	0
8	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.	2.2	13
9	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.	2.1	17
10	Synthesis of Highly-Dispersed Ni/Mesoporous Silica via an Ammonia Evaporation Method for Dry Reforming of Methane: Effect of the Ni Loadings. Catalysis Surveys From Asia, 2021, 25, 312-323.	1.0	20
11	Highly effective La-deficient La Ce MnO3 mixed oxides for the complete oxidation of methane. Progress in Natural Science: Materials International, 2021, 31, 373-378.	1.8	4
12	The controlled preparation and performance of Fe, Co-modified porous ceria nanorods for the total oxidation of propane. Molecular Catalysis, 2020, 480, 110663.	1.0	12
13	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.	10.8	35
14	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.	1.0	5
15	Size effect of Pt nanoparticles in acid-assisted soot oxidation in the presence of NO. Journal of Environmental Sciences, 2020, 94, 64-71.	3.2	14
16	Cobalt-Doped MnO₂ Nanofibers for Enhanced Propane Oxidation. ACS Applied Nano Materials, 2019, 2, 4417-4426.	2.4	41
17	Low-Temperature Solid-State Ion-Exchange Method for Preparing Cu-SSZ-13 Selective Catalytic Reduction Catalyst. ACS Catalysis, 2019, 9, 6962-6973.	5.5	37
18	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.	2.2	40

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19	Nickel doping MnO2 with abundant surface pits as highly efficient catalysts for propane deep oxidation. Chemical Engineering Journal, 2019, 369, 1129-1137.	6.6	72
20	Tuning nonstoichiometric defects in single-phase MnOx for methane complete oxidation. Molecular Catalysis, 2019, 467, 120-127.	1.0	10
21	Atomic palladium on graphitic carbon nitride as a hydrogen evolution catalyst under visible light irradiation. Communications Chemistry, 2019, 2, .	2.0	57
22	Enhanced low-temperature NO oxidation by iron-modified MnO2 catalysts. Catalysis Communications, 2019, 119, 139-143.	1.6	17
23	Facile synthesis of NaOH-promoted Pt/TiO2 catalysts for toluene oxidation under visible light irradiation. Applied Surface Science, 2019, 469, 246-252.	3.1	28
24	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.	1.5	30
25	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.	1.3	21
26	SO2 promoted V2O5-MoO3/TiO2 catalyst for NH3-SCR of NO at low temperatures. Applied Catalysis A: General, 2019, 570, 42-50.	2.2	69
27	A high-surface-area La-Ce-Mn mixed oxide with enhanced activity for CO and C3H8 oxidation. Catalysis Communications, 2018, 105, 26-30.	1.6	18
28	Unique redox properties in defective CeO2-x nanocrystallines synthesized by laser melting. Science China Materials, 2018, 61, 1078-1084.	3.5	5
29	Urea-related reactions and their active sites over Cu-SAPO-34: Formation of NH3 and conversion of HNCO. Applied Catalysis B: Environmental, 2018, 227, 198-208.	10.8	26
30	TRA and DRIFTS studies of the fast SCR reaction over CeO2/TiO2 catalyst at low temperatures. Applied Catalysis A: General, 2018, 557, 46-54.	2.2	59
31	Controlled pore size of Pt/KIT-6 used for propane total oxidation. Rare Metals, 2018, 37, 123-128.	3.6	11
32	Fabrication of hollow-structured FeO -MnO oxidative catalysts with ultra-large surface area. Catalysis Communications, 2018, 104, 13-16.	1.6	12
33	MnOxâ€“CeO2 mixed oxides for diesel soot oxidation: a review. Catalysis Surveys From Asia, 2018, 22, 230-240.	1.0	33
34	High selectivity of CO₂ hydrogenation to CO by controlling the valence state of nickel using perovskite. Chemical Communications, 2018, 54, 7354-7357.	2.2	49
35	Improved activity and durability of Rh-based three-way catalyst under diverse aging atmospheres by ZrO 2 support. Journal of Environmental Sciences, 2017, 52, 197-203.	3.2	20
36	A novel insight into enhanced propane combustion performance on PtUSY catalyst. Rare Metals, 2017, 36, 1-9.	3.6	64

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37	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.	2.8	88
38	Decomposition behavior of ammonium nitrate on ceria catalysts and its role in the NH₃-SCR reaction. Catalysis Science and Technology, 2017, 7, 2531-2541.	2.1	19
39	Controllable synthesis of supported platinum catalysts: acidic support effect and soot oxidation catalysis. Catalysis Science and Technology, 2017, 7, 3268-3274.	2.1	9
40	Influence of morphology on basicity of CeO 2 and its use in 2-chloroethyl ethyl sulfide degradation. Journal of Rare Earths, 2017, 35, 970-976.	2.5	19
41	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.	2.2	99
42	Study of Ag/CeO2 catalysts for naphthalene oxidation: Balancing the oxygen availability and oxygen regeneration capacity. Applied Catalysis B: Environmental, 2017, 219, 231-240.	10.8	62
43	Migration, reactivity, and sulfur tolerance of copper species in SAPO-34 zeolite toward NO_x reduction with ammonia. RSC Advances, 2017, 7, 37787-37796.	1.7	13
44	Ageing resistance of rhodium supported on CeO 2 â€“ZrO 2 and ZrO 2 : Rhodium nanoparticle structure and Rhâ€“support interaction under diverse ageing atmosphere. Catalysis Today, 2017, 281, 490-499.	2.2	37
45	Evolution of copper species on Cu/SAPO-34 SCR catalysts upon hydrothermal aging. Catalysis Today, 2017, 281, 596-604.	2.2	92
46	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.	1.5	62
47	Regeneration of sintered Rh/ZrO2 catalysts via Rh re-dispersion and Rhâ€“ZrO2 interaction. Science China Technological Sciences, 2016, 59, 1023-1028.	2.0	3
48	NO catalytic oxidation over an ultra-large surface area LaMnO3+Î´ perovskite synthesized by an acid-etching method. RSC Advances, 2016, 6, 69855-69860.	1.7	21
49	Effect of water vapor on sulfur poisoning of MnO_xâ€“CeO₂/Al₂O₃ catalyst for diesel soot oxidation. RSC Advances, 2016, 6, 57033-57040.	1.7	8
50	Two-step thermochemical looping using modified ceria-based materials for splitting CO2. Journal of Materials Science, 2016, 51, 2299-2306.	1.7	19
51	Design and Preparation of MnO₂/CeO₂â€“MnO₂ Double-Shelled Binary Oxide Hollow Spheres and Their Application in CO Oxidation. ACS Applied Materials & Interfaces, 2016, 8, 8670-8677.	4.0	128
52	Phase structures, morphologies, and NO catalytic oxidation activities of single-phase MnO2 catalysts. Applied Catalysis A: General, 2016, 514, 24-34.	2.2	96
53	Nanostructured platinum in ordered mesoporous silica as novel efficient catalyst for propane total oxidation. RSC Advances, 2016, 6, 30170-30175.	1.7	10
54	A new insight into the effects of barium addition on Pd-only catalysts: Pd-support interface and CO+NO reaction pathway. Applied Catalysis A: General, 2015, 501, 17-26.	2.2	17

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55	Re-dispersion of Pd on Ce0.5Zr0.5O2 upon cooling in the presence of oxygen. Catalysis Today, 2015, 253, 51-56.	2.2	14
56	Roles of Acid Sites on Pt/H-ZSM5 Catalyst in Catalytic Oxidation of Diesel soot. ACS Catalysis, 2015, 5, 909-919.	5.5	112
57	Formation of BaMnO3 in Ba/MnO â€“CeO2 catalyst upon the hydrothermal ageing and its effects on oxide sintering and soot oxidation activity. Catalysis Today, 2015, 253, 83-88.	2.2	19
58	Pt/Zeolite Catalysts for Soot Oxidation: Influence of Hydrothermal Aging. Journal of Physical Chemistry C, 2015, 119, 17218-17227.	1.5	34
59	A facile ceriaâ€“zirconia binary oxide used for degradation of 2-chloroethyl ethyl sulfide. Journal of Materials Science, 2015, 50, 6268-6276.	1.7	17
60	Pdâ€“Ce0.33Zr0.67O2â€“Al2O3 catalyst for propane oxidation: Interactions between the precious metal and support under the hydrothermal ageing. Catalysis Today, 2015, 242, 322-328.	2.2	14
61	Structure and oxygen storage capacity of Pd/Pr/CeO2-ZrO2 catalyst: effects of impregnated praseodymia. Journal of Rare Earths, 2014, 32, 108-116.	2.5	22
62	Comparative study of Mn/TiO2 and Mn/ZrO2 catalysts for NO oxidation. Catalysis Communications, 2014, 56, 36-40.	1.6	50
63	Insight into the effects of different ageing protocols on Rh/Al2O3 catalyst. Applied Surface Science, 2014, 308, 230-236.	3.1	23
64	NO reduction by CO over Rh/Al2O3 and Rh/AlPO4 catalysts: Metalâ€“support interaction and thermal aging. Journal of Colloid and Interface Science, 2013, 408, 157-163.	5.0	30
65	Comparative study of ageing condition effects on Pd/Ce0.5Zr0.5O2 and Pd/Al2O3 catalysts: Catalytic activity, palladium nanoparticle structure and Pd-support interaction. Applied Catalysis A: General, 2013, 457, 52-61.	2.2	67
66	Oxygen storage capacity and structural properties of Ni-doped LaMnO3 perovskites. Journal of Alloys and Compounds, 2013, 577, 288-294.	2.8	40
67	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
68	Microstructure and oxygen storage capacity of Sr-modified Pt/CeO2â€“ZrO2 catalysts. Progress in Natural Science: Materials International, 2012, 22, 7-14.	1.8	21
69	Structure and oxygen storage capacity of Pr-doped Ce0.26Zr0.74O2 mixed oxides. Journal of Rare Earths, 2011, 29, 1053-1059.	2.5	21
70	Modification of Pdâ€“CeO2 catalyst by different treatments: Effect on the structure and CO oxidation activity. Applied Surface Science, 2011, 257, 3878-3883.	3.1	51
71	MnO â€“CeO2â€“Al2O3 mixed oxides for soot oxidation: Activity and thermal stability. Journal of Hazardous Materials, 2011, 187, 283-290.	6.5	127
72	NO2-aided Soot Oxidation on LaMn0.7Ni0.3O3 Perovkite-type Catalyst. Catalysis Letters, 2009, 131, 494-499.	1.4	12

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73	Thermal ageing of Pt on low-surface-area CeO2â€“ZrO2â€“La2O3 mixed oxides: Effect on the OSC performance. Applied Catalysis B: Environmental, 2008, 81, 38-48.	10.8	206
74	Influence of the oxidative/reductive treatments on the activity of Pt/Ce0.67Zr0.33O2 catalyst. Applied Surface Science, 2005, 245, 162-171.	3.1	53