Yexin Zhang

List of Publications by Year
in descending order

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24	946	567281 15	610901 24
papers	citations	h-index	g-index

24	24	24	1273
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solution combustion derived oxygen vacancy-rich Co₃O₄ catalysts for catalytic formaldehyde oxidation at room temperature. RSC Advances, 2022, 12, 9821-9827.	3.6	3
2	Low-voltage driven Ag-Co3O4 textile device for multifunctional air cleaning. Chemical Engineering Journal, 2021, 424, 130320.	12.7	11
3	Decreasing the catalytic ignition temperature of diesel soot using electrified conductive oxide catalysts. Nature Catalysis, 2021, 4, 1002-1011.	34.4	40
4	Catalytic self-etherification of 5-hydroxymethylfurfural to 5,5â€²(oxy-bis(methylene))bis-2-furfural over zeolite catalysts: effect of pore structure and acidity. Catalysis Science and Technology, 2020, 10, 4684-4692.	4.1	14
5	Improving the Selectivity of ZIF-8/Polysulfone-Mixed Matrix Membranes by Polydopamine Modification for H2/CO2 Separation. Frontiers in Chemistry, 2020, 8, 528.	3.6	25
6	A prototype for catalytic removal of formaldehyde and CO in a compact air cleaner powered by portable electricity. Materials Advances, 2020, 1, 3582-3588.	5.4	7
7	MoO_x Nanoparticle Catalysts for <scp>d</scp>-Glucose Epimerization and Their Electrical Immobilization in a Continuous Flow Reactor. ACS Applied Materials & Interfaces, 2019, 11, 44118-44123.	8.0	2
8	Dipole-moment-driven diesel soot oxidation in the presence of alkali metal chlorides. Catalysis Science and Technology, 2018, 8, 970-974.	4.1	6
9	N-doped ordered mesoporous carbon prepared by solidâ€“solid grinding for supercapacitors. Journal of Materials Research, 2018, 33, 3408-3417.	2.6	11
10	Potassiumâ€Activated Wire Mesh: A Stable Monolithic Catalyst for Diesel Soot Combustion. Chemical Engineering and Technology, 2017, 40, 50-55.	1.5	12
11	Synthesis, Characterization, and Catalytic Activity of Mnâ€doped Perovskite Oxides for Threeâ€Way Catalysis. Chemical Engineering and Technology, 2015, 38, 291-296.	1.5	22
12	Carboxyl groups trigger the activity of carbon nanotube catalysts for the oxygen reduction reaction and agar conversion. Nano Research, 2015, 8, 502-511.	10.4	19
13	In situ oxidation of carbon-encapsulated cobalt nanocapsules creates highly active cobalt oxide catalysts for hydrocarbon combustion. Nature Communications, 2015, 6, 7181.	12.8	81
14	Enhanced catalytic activity for NO oxidation over Ba doped LaCoO₃ catalyst. RSC Advances, 2015, 5, 28054-28059.	3.6	40
15	Different mechanisms between reactions of soot with gaseous and adsorbed NO2. Science Bulletin, 2014, 59, 4003-4007.	1.7	3
16	Substitutional Doping of Carbon Nanotubes with Heteroatoms and Their Chemical Applications. ChemSusChem, 2014, 7, 1240-1250.	6.8	67
17	Solidâ€“solid grinding/templating route to magnetically separable nitrogen-doped mesoporous carbon for the removal of Cu2+ ions. Journal of Hazardous Materials, 2014, 279, 280-288.	12.4	22
18	A unified intermediate and mechanism for soot combustion on potassium-supported oxides. Scientific Reports, 2014, 4, 4725.	3.3	57

#	Article	IF	Citations
19	Identification of active oxygen species for soot combustion on LaMnO3 perovskite. Catalysis Science and Technology, 2012, 2, 1822.	4.1	53
20	Direct Spectroscopic Evidence of CO Spillover and Subsequent Reaction with Preadsorbed NO_x on Pd and K Cosupported Mgâ€“Al Mixed Oxides. Environmental Science & Technology, 2012, 46, 9614-9619.	10.0	23
21	Catalytic performance and mechanism of potassium-promoted Mgâ€“Al hydrotalcite mixed oxides for soot combustion with O2. Journal of Catalysis, 2010, 271, 12-21.	6.2	122
22	Determination of active site densities and mechanisms for soot combustion with O2 on Fe-doped CeO2 mixed oxides. Journal of Catalysis, 2010, 276, 16-23.	6.2	224
23	Determination of Intermediates and Mechanism for Soot Combustion with NO_x/O₂ on Potassium-Supported Mgâ^'Al Hydrotalcite Mixed Oxides by In Situ FTIR. Environmental Science & Technology, 2010, 44, 8254-8258.	10.0	49
24	Diesel soot combustion on potassium promoted hydrotalcite-based mixed oxide catalysts. Catalysis Communications, 2007, 8, 1621-1624.	3.3	33