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	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
2	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
3	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
4	Substitutional Doping of Carbon Nanotubes with Heteroatoms and Their Chemical Applications. ChemSusChem, 2014, 7, 1240-1250.	6.8	67
5	A unified intermediate and mechanism for soot combustion on potassium-supported oxides. Scientific Reports, 2014, 4, 4725.	3.3	57
6	Identification of active oxygen species for soot combustion on LaMnO3 perovskite. Catalysis Science and Technology, 2012, 2, 1822.	4.1	53
7	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
8	Enhanced catalytic activity for NO oxidation over Ba doped LaCoO₃ catalyst. RSC Advances, 2015, 5, 28054-28059.	3.6	40
9	Decreasing the catalytic ignition temperature of diesel soot using electrified conductive oxide catalysts. Nature Catalysis, 2021, 4, 1002-1011.	34.4	40
10	Diesel soot combustion on potassium promoted hydrotalcite-based mixed oxide catalysts. Catalysis Communications, 2007, 8, 1621-1624.	3.3	33
11	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
12	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
13	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
14	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
15	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
16	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
17	Potassiumâ€Activated Wire Mesh: A Stable Monolithic Catalyst for Diesel Soot Combustion. Chemical Engineering and Technology, 2017, 40, 50-55.	1.5	12
18	N-doped ordered mesoporous carbon prepared by solidâ€“solid grinding for supercapacitors. Journal of Materials Research, 2018, 33, 3408-3417.	2.6	11

#	Article	IF	Citations
19	Low-voltage driven Ag-Co3O4 textile device for multifunctional air cleaning. Chemical Engineering Journal, 2021, 424, 130320.	12.7	11
20	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
21	Dipole-moment-driven diesel soot oxidation in the presence of alkali metal chlorides. Catalysis Science and Technology, 2018, 8, 970-974.	4.1	6
22	Different mechanisms between reactions of soot with gaseous and adsorbed NO2. Science Bulletin, 2014, 59, 4003-4007.	1.7	3
23	Solution combustion derived oxygen vacancy-rich Co₃O₄ catalysts for catalytic formaldehyde oxidation at room temperature. RSC Advances, 2022, 12, 9821-9827.	3.6	3
24	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