

Zhaoyang Fei

List of Publications by Year in descending order

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57
papers

977
citations

471509

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477307

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all docs

57
docs citations

57
times ranked

1184
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphology-directed synthesis of Co ₃ O ₄ nanotubes based on modified Kirkendall effect and its application in CH ₄ combustion. <i>Chemical Communications</i> , 2012, 48, 853-855.	4.1	116
2	Precisely fabricating Ce-O-Ti structure to enhance performance of Ce-Ti based catalysts for selective catalytic reduction of NO with NH ₃ . <i>Chemical Engineering Journal</i> , 2018, 353, 930-939.	12.7	89
3	Enhanced CO ₂ Adsorption Performance on Hierarchical Porous ZSM-5 Zeolite. <i>Energy & Fuels</i> , 2017, 31, 13933-13941.	5.1	68
4	Construction of uniform nanodots CeO ₂ stabilized by porous silica matrix for 1,2-dichloroethane catalytic combustion. <i>Chemical Engineering Journal</i> , 2019, 370, 916-924.	12.7	42
5	Geometrical effect of CuO nanostructures on catalytic benzene combustion. <i>Catalysis Science and Technology</i> , 2012, 2, 1705.	4.1	41
6	Selectively Etching Lanthanum to Engineer Surface Cobalt-Enriched LaCoO ₃ Perovskite Catalysts for Toluene Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 10804-10812.	3.7	38
7	Mesoporous Mn-Ti amorphous oxides: a robust low-temperature NH ₃ -SCR catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 6396-6406.	4.1	37
8	HCl Oxidation for Sustainable Cl ₂ Recycle over the Ce _x Zr _{1-x} O ₂ Catalysts: Effects of Ce/Zr Ratio on Activity and Stability. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 19438-19445.	3.7	36
9	Precise fabrication of surface-reconstructed LaMnO ₃ perovskite with enhanced catalytic performance in CH ₄ oxidation. <i>Applied Surface Science</i> , 2020, 505, 144112.	6.1	34
10	CeO ₂ nanodots embedded in a porous silica matrix as an active yet durable catalyst for HCl oxidation. <i>Catalysis Science and Technology</i> , 2016, 6, 5116-5123.	4.1	27
11	Organosilane-Assisted Synthesis of Hierarchical Porous ZSM-5 Zeolite as a Durable Catalyst for Light-Olefins Production from Chloromethane. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 446-455.	3.7	25
12	Efficient cyclohexyl acrylate production by direct addition of acrylic acid and cyclohexene over SBA-15-SO ₃ H. <i>Journal of Porous Materials</i> , 2014, 21, 149-155.	2.6	24
13	Efficient catalytic oxidation of HCl to recycle Cl ₂ over the CuO-CeO ₂ composite oxide supported on Y type zeolite. <i>Chemical Engineering Journal</i> , 2014, 257, 273-280.	12.7	24
14	Modulating the basicity of Zn-MOF-74 via cation exchange with calcium ions. <i>Dalton Transactions</i> , 2019, 48, 14971-14974.	3.3	24
15	Highly Active and Stable Lanthanum-doped Core-Shell-structured Ni@SiO ₂ Catalysts for the Partial Oxidation of Methane to Syngas. <i>ChemCatChem</i> , 2013, 5, 3781-3787.	3.7	23
16	Surrogate modeling-based multi-objective optimization for the integrated distillation processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 159, 108224.	3.6	19
17	Polyethylenimine (PEI)-impregnated resin adsorbent with high efficiency and capacity for CO ₂ capture from flue gas. <i>New Journal of Chemistry</i> , 2019, 43, 18345-18354.	2.8	18
18	A Simple Strategy To Improve PEI Dispersion on MCM-48 with Long-Alkyl Chains Template for Efficient CO ₂ Adsorption. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10975-10983.	3.7	17

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19	Rapid CO ₂ Adsorption over Hierarchical ZSM-5 with Controlled Mesoporosity. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16875-16883.	3.7	16
20	Activated carbon prepared from catechol distillation residue for efficient adsorption of aromatic organic compounds from aqueous solution. <i>Chemosphere</i> , 2021, 269, 128750.	8.2	16
21	La/LaF ₃ co-modified MIL-53(Cr) as an efficient adsorbent for the removal of tetracycline. <i>Journal of Hazardous Materials</i> , 2022, 426, 128112.	12.4	16
22	CO ₂ Adsorption over Carbon Aerogels: the Effect of Pore and Surface Properties. <i>ChemistrySelect</i> , 2019, 4, 3161-3168.	1.5	15
23	A citric acid-assisted deposition strategy to synthesize mesoporous SiO ₂ -confined highly dispersed LaMnO ₃ perovskite nanoparticles for <i>n</i> -butylamine catalytic oxidation. <i>RSC Advances</i> , 2019, 9, 8454-8462.	3.6	12
24	High-precision synthesis of $\hat{I}\pm$ -MnO ₂ nanowires with controllable crystal facets for propane oxidation. <i>CrystEngComm</i> , 2021, 23, 7602-7614.	2.6	12
25	Enhanced activity of MCM-48 based tin catalyst for synthesis of 3-methylbut-3-en-1-ol by adjusting the mesochannel environment. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 4146-4151.	5.8	11
26	Oxygen consumption rate model in HCl oxidation over a supported CuO-CeO ₂ composite oxide catalyst under lean oxygen condition. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1140-1147.	1.7	10
27	Structure Manipulation of Carbon Aerogels by Managing Solution Concentration of Precursor and Its Application for CO ₂ Capture. <i>Processes</i> , 2018, 6, 35.	2.8	9
28	Enhanced Light Olefin Production in Chloromethane Coupling over Mg/Ca Modified Durable HZSM-5 Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5131-5139.	3.7	9
29	Facile improvement of amine dispersion in KIT-1 with the alkyl chains template for enhanced CO ₂ adsorption capacity. <i>Journal of Solid State Chemistry</i> , 2020, 290, 121531.	2.9	9
30	Role of brush-like additives in CO ₂ adsorbents for the enhancement of amine efficiency. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106709.	6.7	9
31	HCl Oxidation To Recycle Cl ₂ over a Cu/Ce Composite Oxide Catalyst. Part 1. Intrinsic Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 11897-11903.	3.7	8
32	Synthesis of tert-butyl acetate via eco-friendly additive reaction over mesoporous silica catalysts with balanced Brønsted and Lewis acid sites. <i>Journal of Porous Materials</i> , 2016, 23, 255-262.	2.6	8
33	Ultrafine cobalt oxide nanoparticles embedded in porous SiO ₂ matrix as efficient and stable catalysts for methane combustion. <i>Molecular Catalysis</i> , 2019, 469, 155-160.	2.0	8
34	Quest for a structure-property relationship in sulfonated graphene catalysts for the additive esterification of carboxylic acids and olefins. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 122, 901-914.	1.7	7
35	A novel process integrating vacuum distillation with atmospheric chlorination reaction for flexible production of tetrachloroethane and pentachloroethane. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 786-794.	3.5	7
36	Facile construction of non-crystalline ZrO ₂ as an active yet durable catalyst for methane oxychlorination. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 163-172.	2.4	7

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37	Plasma-engraved Co ₃ O ₄ nanostructure toward improved formaldehyde oxidation performance: Insight into the structure–activity relationship. <i>Applied Surface Science</i> , 2022, 600, 154183.	6.1	7
38	Multi-Step Consecutive Photo-Chlorination of 1,2-Dichloroethane: Kinetics and Reactive Distillation Experiment. <i>Chemical Engineering and Technology</i> , 2017, 40, 2329-2338.	1.5	6
39	Study on the Mechanism and Kinetics of Waste Polypropylene Cracking Oxidation over the Mn ₂ O ₃ /HY Catalyst by TG-MS and In Situ FTIR. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16569-16578.	3.7	6
40	Silica-confined Ru highly dispersed on ZrO ₂ with enhanced activity and thermal stability in dichloroethane combustion. <i>Nanoscale</i> , 2021, 13, 10765-10770.	5.6	6
41	Amino-Functionalized Pore-Expanded MCM-41 for CO ₂ Adsorption: Effect of Alkyl Chain Length of the Template. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 9331-9341.	3.7	6
42	Carbon Aerogels Synthesized with Cetyltrimethyl Ammonium Bromide (CTAB) as a Catalyst and its Application for CO ₂ Capture. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 155-160.	1.2	5
43	Iron-doped mesoporous silica, Fe-MCM-41, as an active Lewis acid catalyst for acidolysis of benzyl chloride with fatty acid. <i>Journal of Porous Materials</i> , 2019, 26, 261-269.	2.6	5
44	Ultrafine CeO ₂ Nanodots Embedded in Porous ZrO ₂ for Efficient and Sustainable Chlorine Recycle through Hydrochloric Acid Catalytic Oxidation. <i>ChemistrySelect</i> , 2020, 5, 12442-12449.	1.5	5
45	Ultrafine Pd species anchored on porous CeO ₂ nanobundles as a highly efficient catalyst for methane oxidation. <i>Applied Surface Science</i> , 2022, 599, 153909.	6.1	5
46	Simultaneous shaping and confinement of metal-organic polyhedra in alginate-SiO ₂ spheres. <i>Chemical Communications</i> , 2020, 56, 14833-14836.	4.1	4
47	MINLP Optimization of Side-Reactor Column Configuration Based upon Improved Bat Algorithm. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5945-5955.	3.7	4
48	Plasma-induced construction of defect-enriched perovskite oxides for catalytic methane combustion. <i>Environmental Science: Nano</i> , 2021, 8, 2386-2395.	4.3	4
49	Ultra-high surface area porous carbon from catechol rectification residue with excellent adsorption capacity for various organic pollutants. <i>Separation and Purification Technology</i> , 2022, 284, 120244.	7.9	4
50	HCl Oxidation To Recycle Cl ₂ over a Cu/Ce Composite Oxide Catalyst. Part 2. Single-Tube-Reactor Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 9931-9937.	3.7	3
51	Solvent-Assisted Stepwise Redox Approach To Generate Zeolite NaA-Supported K ₂ O as Strong Base Catalyst for Michael Addition of Ethyl Acrylate with Ethanol. <i>ACS Omega</i> , 2018, 3, 10188-10197.	3.5	3
52	High-efficiency treatment of benzaldehyde residue using two-stage fluidized-bed/fixed-bed catalytic system. <i>Environmental Technology (United Kingdom)</i> , 2020, 41, 2898-2906.	2.2	3
53	Design and Control for the Dimethyl Adipate Process with a Side-Reactor Column Configuration. <i>Chemical Engineering and Technology</i> , 2021, 44, 1716-1725.	1.5	3
54	Efficient hydrochlorination of glycerol to dichlorohydrin over the COOH-functionalized mesoporous carbon–silica composites. <i>Journal of Porous Materials</i> , 2015, 22, 57-64.	2.6	2

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55	Mn/Co Redox Cycle Promoted Catalytic Performance of Mesoporous SiO ₂ -Confined Highly Dispersed LaMn _x Co _{1-x} O ₃ Perovskite Oxides in n-Butylamine Combustion. ChemistrySelect, 2020, 5, 8504-8511.	1.5	2
56	Simultaneous disposal of acrylic acid (ester) wastewater and residue with high efficiency and low energy consumption. , 0, 172, 368-376.		2
57	Al-modified Mesoporous SiO ₂ -matrix-supported Uniform CeO ₂ Nanodots with Superior Catalytic Efficiency in DCE Combustion. ChemistrySelect, 2022, 7, .	1.5	1