

# Xian Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8639167/publications.pdf>

Version: 2024-02-01

36  
papers

454  
citations

623734

14  
h-index

752698

20  
g-index

36  
all docs

36  
docs citations

36  
times ranked

551  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selectively Etching Lanthanum to Engineer Surface Cobalt-Enriched LaCoO <sub>3</sub> Perovskite Catalysts for Toluene Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 10804-10812.	3.7	38
2	Mesoporous Mn-Ti amorphous oxides: a robust low-temperature NH <sub>3</sub> -SCR catalyst. <i>Catalysis Science and Technology</i> , 2018, 8, 6396-6406.	4.1	37
3	HCl Oxidation for Sustainable Cl <sub>2</sub> Recycle over the Ce <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Catalysts: Effects of Ce/Zr Ratio on Activity and Stability. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19438-19445.	3.7	36
4	CeO <sub>2</sub> 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
5	Organosilane-Assisted Synthesis of Hierarchical Porous ZSM-5 Zeolite as a Durable Catalyst for Light-Olefins Production from Chloromethane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 446-455.	3.7	25
6	Efficient cyclohexyl acrylate production by direct addition of acrylic acid and cyclohexene over SBA-15-SO <sub>3</sub> H. <i>Journal of Porous Materials</i> , 2014, 21, 149-155.	2.6	24
7	Physicochemical properties of n-n heterostructured TiO <sub>2</sub> /Mo-TiO <sub>2</sub> composites and their photocatalytic degradation of gaseous toluene. <i>Chemical Speciation and Bioavailability</i> , 2017, 29, 60-69.	2.0	24
8	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
9	Optimum Design and Analysis Based on Independent Reaction Amount for Distillation Column with Side Reactors: Production of Benzyl Chloride. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 11143-11152.	3.7	18
10	Polyethylenimine (PEI)-impregnated resin adsorbent with high efficiency and capacity for CO <sub>2</sub> capture from flue gas. <i>New Journal of Chemistry</i> , 2019, 43, 18345-18354.	2.8	18
11	A Simple Strategy To Improve PEI Dispersion on MCM-48 with Long-Alkyl Chains Template for Efficient CO <sub>2</sub> Adsorption. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 10975-10983.	3.7	17
12	Rapid CO <sub>2</sub> Adsorption over Hierarchical ZSM-5 with Controlled Mesoporosity. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 16875-16883.	3.7	16
13	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
14	La/LaF <sub>3</sub> 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
15	CO <sub>2</sub> Adsorption over Carbon Aerogels: the Effect of Pore and Surface Properties. <i>ChemistrySelect</i> , 2019, 4, 3161-3168.	1.5	15
16	Oxygen consumption rate model in HCl oxidation over a supported CuO-CeO <sub>2</sub> composite oxide catalyst under lean oxygen condition. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 1140-1147.	1.7	10
17	Structure Manipulation of Carbon Aerogels by Managing Solution Concentration of Precursor and Its Application for CO <sub>2</sub> Capture. <i>Processes</i> , 2018, 6, 35.	2.8	9
18	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

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Facile construction of non-crystalline ZrO <sub>2</sub> 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
22	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
23	Study on the Mechanism and Kinetics of Waste Polypropylene Cracking Oxidation over the Mn <sub>2</sub> O <sub>3</sub> /HY Catalyst by TG-MS and In Situ FTIR. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 16569-16578.	3.7	6
24	Silica-confined Ru highly dispersed on ZrO <sub>2</sub> with enhanced activity and thermal stability in dichloroethane combustion. <i>Nanoscale</i> , 2021, 13, 10765-10770.	5.6	6
25	Amino-Functionalized Pore-Expanded MCM-41 for CO <sub>2</sub> Adsorption: Effect of Alkyl Chain Length of the Template. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 9331-9341.	3.7	6
26	Carbon Aerogels Synthesized with Cetyltrimethyl Ammonium Bromide (CTAB) as a Catalyst and its Application for CO <sub>2</sub> Capture. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018, 644, 155-160.	1.2	5
27	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
28	Simultaneous shaping and confinement of metal-organic polyhedra in alginate-SiO <sub>2</sub> spheres. <i>Chemical Communications</i> , 2020, 56, 14833-14836.	4.1	4
29	MINLP Optimization of Side-Reactor Column Configuration Based upon Improved Bat Algorithm. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 5945-5955.	3.7	4
30	HCl Oxidation To Recycle Cl <sub>2</sub> over a Cu/Ce Composite Oxide Catalyst. Part 2. Single-Tube-Reactor Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 9931-9937.	3.7	3
31	Solvent-Assisted Stepwise Redox Approach To Generate Zeolite NaA-Supported K <sub>2</sub> O as Strong Base Catalyst for Michael Addition of Ethyl Acrylate with Ethanol. <i>ACS Omega</i> , 2018, 3, 10188-10197.	3.5	3
32	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
33	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
34	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
35	Mn/Co Redox Cycle Promoted Catalytic Performance of Mesoporous SiO <sub>2</sub> -Confined Highly Dispersed LaMn <sub>x</sub> Co <sub>1-x</sub> O <sub>3</sub> Perovskite Oxides in n-Butylamine Combustion. <i>ChemistrySelect</i> , 2020, 5, 8504-8511.	1.5	2
36	Simultaneous disposal of acrylic acid (ester) wastewater and residue with high efficiency and low energy consumption. , 0, 172, 368-376.		2