

Qing Liu

List of Publications by Year in descending order

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62
papers

1,807
citations

331670

21
h-index

276875

41
g-index

63
all docs

63
docs citations

63
times ranked

2255
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of Fe ₃ O ₄ /Polyacrylonitrile Composite Electrospun Nanofiber Mat for Effective Adsorption of Tetracycline. ACS Applied Materials & Interfaces, 2015, 7, 14573-14583.	8.0	256
2	Adsorption of Carbon Dioxide by MIL-101(Cr): Regeneration Conditions and Influence of Flue Gas Contaminants. Scientific Reports, 2013, 3, 2916.	3.3	170
3	Kinetics Studies of CO ₂ Adsorption/Desorption on Amine-Functionalized Multiwalled Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2014, 53, 11677-11683.	3.7	147
4	Capturing CO ₂ into the Precipitate of a Phase-Changing Solvent after Absorption. Environmental Science & Technology, 2014, 48, 8905-8910.	10.0	100
5	Towards multidimensional subspace skyline analysis. ACM Transactions on Database Systems, 2006, 31, 1335-1381.	2.8	96
6	Precisely fabricating Ce-O-Ti structure to enhance performance of Ce-Ti based catalysts for selective catalytic reduction of NO with NH ₃ . Chemical Engineering Journal, 2018, 353, 930-939.	12.7	89
7	Enhanced Adsorption Efficiency through Materials Design for Direct Air Capture over Supported Polyethylenimine. ChemSusChem, 2016, 9, 2796-2803.	6.8	82
8	Enhanced CO ₂ Adsorption Performance on Hierarchical Porous ZSM-5 Zeolite. Energy & Fuels, 2017, 31, 13933-13941.	5.1	68
9	Amine-functionalized low-cost industrial grade multi-walled carbon nanotubes for the capture of carbon dioxide. Journal of Energy Chemistry, 2014, 23, 111-118.	12.9	61
10	Construction of uniform nanodots CeO ₂ stabilized by porous silica matrix for 1,2-dichloroethane catalytic combustion. Chemical Engineering Journal, 2019, 370, 916-924.	12.7	42
11	Carbon Dioxide Capture with Polyethylenimine-Functionalized Industrial-Grade Multiwalled Carbon Nanotubes. Industrial & Engineering Chemistry Research, 2014, 53, 17468-17475.	3.7	39
12	Selectively Etching Lanthanum to Engineer Surface Cobalt-Enriched LaCoO ₃ Perovskite Catalysts for Toluene Combustion. Industrial & Engineering Chemistry Research, 2020, 59, 10804-10812.	3.7	38
13	Mesoporous Mn-Ti amorphous oxides: a robust low-temperature NH ₃ -SCR catalyst. Catalysis Science and Technology, 2018, 8, 6396-6406.	4.1	37
14	On efficient reverse skyline query processing. Expert Systems With Applications, 2014, 41, 3237-3249.	7.6	35
15	Enhanced Tolerance to Flue Gas Contaminants on Carbon Dioxide Capture Using Amine-Functionalized Multiwalled Carbon Nanotubes. Energy & Fuels, 2014, 28, 6494-6501.	5.1	34
16	Precise fabrication of surface-reconstructed LaMnO ₃ perovskite with enhanced catalytic performance in CH ₄ oxidation. Applied Surface Science, 2020, 505, 144112.	6.1	34
17	Enhanced catalytic performance for light-olefins production from chloromethane over hierarchical porous ZSM-5 zeolite synthesized by a growth-inhibition strategy. Applied Surface Science, 2018, 435, 945-952.	6.1	33
18	Biogas Upgrading by Capturing CO ₂ in Non-aqueous Phase-Changing Diamine Solutions. Energy & Fuels, 2017, 31, 6298-6304.	5.1	31

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19	Quest for pore size effect on the catalytic property of defect-engineered MOF-808-SO ₄ in the addition reaction of isobutylene with ethylene glycol. <i>Journal of Solid State Chemistry</i> , 2019, 269, 9-15.	2.9	27
20	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
21	Modulating the basicity of Zn-MOF-74 via cation exchange with calcium ions. <i>Dalton Transactions</i> , 2019, 48, 14971-14974.	3.3	24
22	Construction of crystal defect sites in UiO-66 for adsorption of dimethyl phthalate and phthalic acid. <i>Microporous and Mesoporous Materials</i> , 2021, 312, 110778.	4.4	22
23	Answering why-not and why questions on reverse top-k queries. <i>VLDB Journal</i> , 2016, 25, 867-892.	4.1	20
24	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
25	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
26	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
27	In situ synthetic hierarchical porous MIL-53(Cr) as an efficient adsorbent for mesopores-controlled adsorption of tetracycline. <i>Microporous and Mesoporous Materials</i> , 2022, 332, 111667.	4.4	17
28	Rapid CO ₂ Adsorption over Hierarchical ZSM-5 with Controlled Mesoporosity. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 16875-16883.	3.7	16
29	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
30	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
31	Reverse k-nearest neighbor search in the presence of obstacles. <i>Information Sciences</i> , 2016, 330, 274-292.	6.9	15
32	CO ₂ Adsorption over Carbon Aerogels: the Effect of Pore and Surface Properties. <i>ChemistrySelect</i> , 2019, 4, 3161-3168.	1.5	15
33	A citric acid-assisted deposition strategy to synthesize mesoporous SiO ₂ -confined highly dispersed LaMnO ₃ perovskite nanoparticles for n-butylamine catalytic oxidation. <i>RSC Advances</i> , 2019, 9, 8454-8462.	3.6	12
34	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
35	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
36	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

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37	Role of brush-like additives in CO ₂ adsorbents for the enhancement of amine efficiency. Journal of Environmental Chemical Engineering, 2021, 9, 106709.	6.7	9
38	Quest for a structure-property relationship in sulfonated graphene catalysts for the additive esterification of carboxylic acids and olefins. Reaction Kinetics, Mechanisms and Catalysis, 2017, 122, 901-914.	1.7	7
39	Facile construction of non-crystalline ZrO ₂ as an active yet durable catalyst for methane oxychlorination. Journal of Sol-Gel Science and Technology, 2019, 92, 163-172.	2.4	7
40	Finding Causality and Responsibility for Probabilistic Reverse Skyline Query Non-Answers. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2974-2987.	5.7	6
41	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. Industrial & Engineering Chemistry Research, 2020, 59, 16569-16578.	3.7	6
42	Silica-confined Ru highly dispersed on ZrO ₂ with enhanced activity and thermal stability in dichloroethane combustion. Nanoscale, 2021, 13, 10765-10770.	5.6	6
43	Amino-Functionalized Pore-Expanded MCM-41 for CO ₂ Adsorption: Effect of Alkyl Chain Length of the Template. Industrial & Engineering Chemistry Research, 2022, 61, 9331-9341.	3.7	6
44	Carbon Aerogels Synthesized with Cetyltrimethyl Ammonium Bromide (CTAB) as a Catalyst and its Application for CO ₂ Capture. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 155-160.	1.2	5
45	Iron-doped mesoporous silica, Fe-MCM-41, as an active Lewis acid catalyst for acidolysis of benzyl chloride with fatty acid. Journal of Porous Materials, 2019, 26, 261-269.	2.6	5
46	Efficient group-by reverse skyline computation. World Wide Web, 2016, 19, 1023-1049.	4.0	4
47	Simultaneous shaping and confinement of metal-organic polyhedra in alginate-SiO ₂ spheres. Chemical Communications, 2020, 56, 14833-14836.	4.1	4
48	MINLP Optimization of Side-Reactor Column Configuration Based upon Improved Bat Algorithm. Industrial & Engineering Chemistry Research, 2020, 59, 5945-5955.	3.7	4
49	Ultra-high surface area porous carbon from catechol rectification residue with excellent adsorption capacity for various organic pollutants. Separation and Purification Technology, 2022, 284, 120244.	7.9	4
50	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. ACS Omega, 2018, 3, 10188-10197.	3.5	3
51	High-efficiency treatment of benzaldehyde residue using two-stage fluidized-bed/fixed-bed catalytic system. Environmental Technology (United Kingdom), 2020, 41, 2898-2906.	2.2	3
52	Selective addition of isobutene over ZrSiO ₄ /SiO ₂ -SO ₃ H: Hydroacetoxylation versus dimerization. Catalysis Communications, 2021, 148, 106172.	3.3	3
53	Design and Control for the Dimethyl Adipate Process with a Side-Reactor Column Configuration. Chemical Engineering and Technology, 2021, 44, 1716-1725.	1.5	3
54	IS2R: A System for Refining Reverse Top-k Queries. , 2017, , .		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	CO ₂ Capture Using Solid Sorbents. , 2015, , 1-56.		2
57	Simultaneous disposal of acrylic acid (ester) wastewater and residue with high efficiency and low energy consumption. , 0, 172, 368-376.		2
58	Stability Mechanism of Low Temperature C ₂ H ₄ SCR with Activated-Carbon-Supported MnO _x -Based Catalyst. ACS Omega, 2022, 7, 12004-12014.	3.5	2
59	Finding Causality and Responsibility for Probabilistic Reverse Skyline Query Non-Answers. , 2017, , .		1
60	An effective selective catalytic reduction catalyst contains oxygen bridge for NO _x reduction based on low concentration of C ₃ H ₆ at medium-low temperatures. International Journal of Energy Research, 0, , .	4.5	1
61	Al-modified Mesoporous SiO ₂ matrix-supported Uniform CeO ₂ Nanodots with Superior Catalytic Efficiency in DCE Combustion. ChemistrySelect, 2022, 7, .	1.5	1
62	CO ₂ Capture Using Solid Sorbents. , 2017, , 2349-2404.		0