

# Lumeng Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

406  
citations

1040056

9  
h-index

752698

20  
g-index

20  
all docs

20  
docs citations

20  
times ranked

436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water adsorption on carbon - A review. <i>Advances in Colloid and Interface Science</i> , 2017, 250, 64-78.	14.7	204
2	Formaldehyde adsorption in carbon nanopores – New insights from molecular simulation. <i>Chemical Engineering Journal</i> , 2019, 370, 866-874.	12.7	40
3	On the mechanism of water adsorption in carbon micropores – A molecular simulation study. <i>Chemical Engineering Journal</i> , 2019, 357, 358-366.	12.7	31
4	Development of averaged solid–fluid potential energies for layers and solids of various geometries and dimensionality. <i>Adsorption</i> , 2018, 24, 1-9.	3.0	19
5	Bacterial community in commercial airliner cabins in China. <i>International Journal of Environmental Health Research</i> , 2020, 30, 284-295.	2.7	13
6	On the characterization of bimodal porous carbon via water adsorption: The role of pore connectivity and temperature. <i>Carbon</i> , 2021, 179, 477-485.	10.3	12
7	On the microscopic origin of the temperature evolution of isosteric heat for methane adsorption on graphite. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27105-27115.	2.8	11
8	Towards a better understanding of adsorption of indoor air pollutants in porous media – From mechanistic model to molecular simulation. <i>Building Simulation</i> , 2018, 11, 997-1010.	5.6	11
9	On the capture of ultralow-level benzene in indoor environments: Experiments, modeling and molecular simulation. <i>Separation and Purification Technology</i> , 2020, 251, 117306.	7.9	10
10	Calculation method of state transfer matrix in Markov chain model for airborne contaminant transport: Investigation and improvement. <i>Building and Environment</i> , 2020, 185, 107295.	6.9	9
11	On the capture of polar indoor air pollutants at sub-ppm level – A molecular simulation study. <i>Building Simulation</i> , 2020, 13, 989-997.	5.6	9
12	Competitive and Synergistic Adsorption of Mixtures of Polar and Nonpolar Gases in Carbonaceous Nanopores. <i>Langmuir</i> , 2021, 37, 6754-6764.	3.5	8
13	Comparing calculation methods of state transfer matrix in Markov chain models for indoor contaminant transport. <i>Building and Environment</i> , 2022, 207, 108515.	6.9	7
14	Microscopic insights into water adsorption in carbon nanopores – the role of acidic and basic functional groups and their configurations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 18369-18377.	2.8	6
15	Occupants contribute to pathogens and probiotics in indoor environments. <i>Building and Environment</i> , 2022, 213, 108863.	6.9	5
16	Comparison of the Adsorption Transitions of Methane and Krypton on Graphite at Sub-Monolayer Coverage. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7737-7748.	3.1	4
17	New Insights into the Capture of Low-level Gaseous Pollutants in Indoor Environment by Carbonaceous Materials: Effects of Functional Groups, Pore Size, and Presence of Moist. <i>Separation and Purification Technology</i> , 2022, 298, 121652.	7.9	3
18	Computer Simulation and Experimental Studies of Various Environmental Gases (NH <sub>3</sub> , CH <sub>2</sub> O, SO <sub>2</sub> , H <sub>2</sub> S,) Tj ETQq0,0,0 rgBT /2 Overlock 1	0,6	2

#	ARTICLE	IF	CITATIONS
19	Rapid simulation of airborne contaminant transport: Coupling concentration response factor method into a Markov chain model. <i>International Journal of Heat and Mass Transfer</i> , 2022, 185, 122389.	4.8	1
20	Explore the Benefits of Natural Air: New Insights from Field and Chamber Tests on Cognitive Performance. <i>Atmosphere</i> , 2022, 13, 1006.	2.3	1