

# Lexuan Zhong

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

1,082  
citations

535685

17  
h-index

466096

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1276  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet photocatalytic oxidation technology for indoor volatile organic compound removal: A critical review with particular focus on byproduct formation and modeling. <i>Journal of Hazardous Materials</i> , 2022, 421, 126766.	6.5	22
2	Examination of human interaction on indoor environmental quality variables: A case study of libraries at the University of Alberta. <i>Building and Environment</i> , 2022, 207, 108476.	3.0	12
3	Wildfire-resilient mechanical ventilation systems for single-detached homes in cities of Western Canada. <i>Sustainable Cities and Society</i> , 2022, 79, 103668.	5.1	3
4	Be alert for vapor intrusion of 1,4-dioxane from contaminated groundwater. <i>Science of the Total Environment</i> , 2022, 825, 153713.	3.9	4
5	A hybrid domed roof and evaporative cooling system: thermal comfort and building energy evaluation. <i>Sustainable Cities and Society</i> , 2022, 80, 103756.	5.1	7
6	The impact of heating, ventilation, and air conditioning design features on the transmission of viruses, including the 2019 novel coronavirus: A systematic review of ultraviolet radiation. <i>PLoS ONE</i> , 2022, 17, e0266487.	1.1	17
7	The impact of heating, ventilation, and air conditioning design features on the transmission of viruses, including the 2019 novel coronavirus: A systematic review of ventilation and coronavirus. <i>PLOS Global Public Health</i> , 2022, 2, e0000552.	0.5	4
8	Sensor fusion with high-order moments constraints using projection-based neural network. <i>IET Signal Processing</i> , 2021, 15, 500-509.	0.9	0
9	Framework for design and optimization of a retrofitted light industrial space with a renewable energy-assisted hydroponics facility in a rural northern canadian community. <i>Journal of Building Engineering</i> , 2021, 37, 102160.	1.6	6
10	Ultraviolet germicidal irradiation (UVGI) for in-duct airborne bioaerosol disinfection: Review and analysis of design factors. <i>Building and Environment</i> , 2021, 197, 107852.	3.0	50
11	Experimental evaluation of in-duct electronic air cleaning technologies for the removal of ketones. <i>Building and Environment</i> , 2021, 196, 107782.	3.0	11
12	Indoor Environmental Health Assessment in Eco-Building and Its Case Study. <i>Atmosphere</i> , 2021, 12, 794.	1.0	2
13	Multi-Model Identification of HVAC System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 668.	1.3	2
14	Model-Based Observer Design Considering Unequal Measurement Delays. <i>Actuators</i> , 2021, 10, 281.	1.2	0
15	Adsorption and photocatalytic degradation performances of TiO <sub>2</sub> /diatomite composite for volatile organic compounds: Effects of key parameters. <i>Applied Surface Science</i> , 2020, 525, 146633.	3.1	32
16	Volatile organic compounds (VOCs) releasing model from tailings solvent recovery unit (TSRU) tailings and its sensitivity analysis in environment management. <i>Chemical Engineering Research and Design</i> , 2020, 141, 267-277.	2.7	10
17	An improved numerical model of a UV-PCO reactor for air purification applications. <i>Building Simulation</i> , 2020, 13, 1095-1110.	3.0	10
18	Techno-economic analysis of air-source heat pump (ASHP) technology for single-detached home heating applications in Canada. <i>Science and Technology for the Built Environment</i> , 2020, 26, 1352-1370.	0.8	13

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19	Integrated adsorption and photocatalytic degradation of VOCs using a TiO <sub>2</sub> /diatomite composite: effects of relative humidity and reaction atmosphere. <i>Catalysis Science and Technology</i> , 2020, 10, 2378-2388.	2.1	31
20	Simulation and computer modeling of asphaltene in different solvents on oil-water interfaces using a molecular dynamic methodology. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 93, 107450.	1.3	9
21	Indoor air quality management based on fuzzy risk assessment and its case study. <i>Sustainable Cities and Society</i> , 2019, 50, 101654.	5.1	25
22	New modeling method to simulate asphaltenes at oil sands process in water management. <i>Journal of Molecular Graphics and Modelling</i> , 2019, 91, 1-9.	1.3	14
23	Numerical Simulation of a UV-PCO Plate Reactor. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 042011.	0.3	1
24	Indoor Environmental Quality Evaluation of Lecture Classrooms in an Institutional Building in a Cold Climate. <i>Sustainability</i> , 2019, 11, 6591.	1.6	31
25	VOC sources and exposures in nail salons: a pilot study in Michigan, USA. <i>International Archives of Occupational and Environmental Health</i> , 2019, 92, 141-153.	1.1	45
26	Modeling of by-products from photocatalytic oxidation (PCO) indoor air purifiers: A case study of ethanol. <i>Building and Environment</i> , 2018, 144, 427-436.	3.0	24
27	Experimental and modeling study of visible light responsive photocatalytic oxidation (PCO) materials for toluene degradation. <i>Applied Catalysis B: Environmental</i> , 2017, 216, 122-132.	10.8	70
28	Indoor ozone and climate change. <i>Sustainable Cities and Society</i> , 2017, 28, 466-472.	5.1	32
29	Volatile Organic Compounds (VOCs) in Conventional and High Performance School Buildings in the U.S.. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 100.	1.2	61
30	Deactivation and ultraviolet C-induced regeneration of photocatalytic oxidation air filters. <i>Science and Technology for the Built Environment</i> , 2016, 22, 576-585.	0.8	8
31	Evaluation of ultraviolet photocatalytic oxidation of light alcohols at sub-parts per million concentrations. <i>Science and Technology for the Built Environment</i> , 2015, 21, 160-171.	0.8	12
32	Competitive Adsorption Behaviour of Binary Mixtures on Titanium Dioxide. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1657-1666.	0.9	8
33	Photocatalytic air cleaners and materials technologies – Abilities and limitations. <i>Building and Environment</i> , 2015, 91, 191-203.	3.0	201
34	Performance of ultraviolet photocatalytic oxidation for indoor air applications: Systematic experimental evaluation. <i>Journal of Hazardous Materials</i> , 2013, 261, 130-138.	6.5	89
35	Ultraviolet photocatalytic oxidation for indoor environment applications: Experimental validation of the model. <i>Building and Environment</i> , 2013, 62, 155-166.	3.0	35
36	Adsorption performance of titanium dioxide (TiO <sub>2</sub> ) coated air filters for volatile organic compounds. <i>Journal of Hazardous Materials</i> , 2012, 243, 340-349.	6.5	79

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37	Modeling and validation of a photocatalytic oxidation reactor for indoor environment applications. <i>Chemical Engineering Science</i> , 2011, 66, 5945-5954.	1.9	33
38	Modeling and physical interpretation of photocatalytic oxidation efficiency in indoor air applications. <i>Building and Environment</i> , 2010, 45, 2689-2697.	3.0	56
39	Application of air-source heat pump (ASHP) technology for residential buildings in Canada. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 609, 052006.	0.3	5