

# Lexuan Zhong

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/101432/publications.pdf>

Version: 2024-02-01

39  
papers

1,082  
citations

471509

17  
h-index

414414

32  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1144  
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.	12.4	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.	6.9	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.	10.4	3
4	Be alert for vapor intrusion of 1,4-dioxane from contaminated groundwater. <i>Science of the Total Environment</i> , 2022, 825, 153713.	8.0	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.	10.4	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.	2.5	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.	1.6	4
8	Sensor fusion with high-order moments constraints using projection-based neural network. <i>IET Signal Processing</i> , 2021, 15, 500-509.	1.5	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.	3.4	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.	6.9	50
11	Experimental evaluation of in-duct electronic air cleaning technologies for the removal of ketones. <i>Building and Environment</i> , 2021, 196, 107782.	6.9	11
12	Indoor Environmental Health Assessment in Eco-Building and Its Case Study. <i>Atmosphere</i> , 2021, 12, 794.	2.3	2
13	Multi-Model Identification of HVAC System. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 668.	2.5	2
14	Model-Based Observer Design Considering Unequal Measurement Delays. <i>Actuators</i> , 2021, 10, 281.	2.3	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.	6.1	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.	5.6	10
17	An improved numerical model of a UV-PCO reactor for air purification applications. <i>Building Simulation</i> , 2020, 13, 1095-1110.	5.6	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.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Integrated adsorption and photocatalytic degradation of VOCs using a TiO <sub>2</sub> /diatomite composite: effects of relative humidity and reaction atmosphere. Catalysis Science and Technology, 2020, 10, 2378-2388.	4.1	31
20	Simulation and computer modeling of asphaltene in different solvents on oil-water interfaces using a molecular dynamic methodology. Journal of Molecular Graphics and Modelling, 2019, 93, 107450.	2.4	9
21	Indoor air quality management based on fuzzy risk assessment and its case study. Sustainable Cities and Society, 2019, 50, 101654.	10.4	25
22	New modeling method to simulate asphaltenes at oil sands process in water management. Journal of Molecular Graphics and Modelling, 2019, 91, 1-9.	2.4	14
23	Numerical Simulation of a UV-PCO Plate Reactor. IOP Conference Series: Materials Science and Engineering, 2019, 609, 042011.	0.6	1
24	Indoor Environmental Quality Evaluation of Lecture Classrooms in an Institutional Building in a Cold Climate. Sustainability, 2019, 11, 6591.	3.2	31
25	VOC sources and exposures in nail salons: a pilot study in Michigan, USA. International Archives of Occupational and Environmental Health, 2019, 92, 141-153.	2.3	45
26	Modeling of by-products from photocatalytic oxidation (PCO) indoor air purifiers: A case study of ethanol. Building and Environment, 2018, 144, 427-436.	6.9	24
27	Experimental and modeling study of visible light responsive photocatalytic oxidation (PCO) materials for toluene degradation. Applied Catalysis B: Environmental, 2017, 216, 122-132.	20.2	70
28	Indoor ozone and climate change. Sustainable Cities and Society, 2017, 28, 466-472.	10.4	32
29	Volatile Organic Compounds (VOCs) in Conventional and High Performance School Buildings in the U.S.. International Journal of Environmental Research and Public Health, 2017, 14, 100.	2.6	61
30	Deactivation and ultraviolet C-induced regeneration of photocatalytic oxidation air filters. Science and Technology for the Built Environment, 2016, 22, 576-585.	1.7	8
31	Evaluation of ultraviolet photocatalytic oxidation of light alcohols at sub-parts per million concentrations. Science and Technology for the Built Environment, 2015, 21, 160-171.	1.7	12
32	Competitive Adsorption Behaviour of Binary Mixtures on Titanium Dioxide. Canadian Journal of Chemical Engineering, 2015, 93, 1657-1666.	1.7	8
33	Photocatalytic air cleaners and materials technologies – Abilities and limitations. Building and Environment, 2015, 91, 191-203.	6.9	201
34	Performance of ultraviolet photocatalytic oxidation for indoor air applications: Systematic experimental evaluation. Journal of Hazardous Materials, 2013, 261, 130-138.	12.4	89
35	Ultraviolet photocatalytic oxidation for indoor environment applications: Experimental validation of the model. Building and Environment, 2013, 62, 155-166.	6.9	35
36	Adsorption performance of titanium dioxide (TiO <sub>2</sub> ) coated air filters for volatile organic compounds. Journal of Hazardous Materials, 2012, 243, 340-349.	12.4	79

#	ARTICLE	IF	CITATIONS
37	Modeling and validation of a photocatalytic oxidation reactor for indoor environment applications. Chemical Engineering Science, 2011, 66, 5945-5954.	3.8	33
38	Modeling and physical interpretation of photocatalytic oxidation efficiency in indoor air applications. Building and Environment, 2010, 45, 2689-2697.	6.9	56
39	Application of air-source heat pump (ASHP) technology for residential buildings in Canada. IOP Conference Series: Materials Science and Engineering, 0, 609, 052006.	0.6	5