

William P Bahnfleth

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,755
citations

567281

15
h-index

434195

31
g-index

35
all docs

35
docs citations

35
times ranked

2241
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of airborne infectious disease in buildings: Evidence and research priorities. <i>Indoor Air</i> , 2022, 32, .	4.3	14
2	Inactivation of Pathogens in Air Using Ultraviolet Direct Irradiation Below Exposure Limits. <i>Journal of Research of the National Institute of Standards and Technology</i> , 2022, 126, .	1.2	0
3	Model-Based Testbed for Uncertainty Quantification in Building Control Systems with Advanced Sequences of Operation. <i>Journal of Architectural Engineering</i> , 2022, 28, .	1.6	0
4	Indoor air quality and health in schools: A critical review for developing the roadmap for the future school environment. <i>Journal of Building Engineering</i> , 2022, 57, 104908.	3.4	43
5	Why Indoor Chemistry Matters: A National Academies Consensus Report. <i>Environmental Science & Technology</i> , 2022, 56, 10560-10563.	10.0	12
6	A paradigm shift to combat indoor respiratory infection. <i>Science</i> , 2021, 372, 689-691.	12.6	192
7	Critical Capability Needs for Reduction of Transmission of SARS-CoV-2 Indoors. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 641599.	4.1	1
8	Impact of control loop performance on energy use, air quality, and thermal comfort in building systems with advanced sequences of operation. <i>Automation in Construction</i> , 2021, 130, 103837.	9.8	4
9	The COVID-19 pandemic is a global indoor air crisis that should lead to change: A message commemorating 30 years of <i>Indoor Air</i> . <i>Indoor Air</i> , 2021, 31, 1683-1686.	4.3	19
10	Performance of advanced control sequences in handling uncertainty in energy use and indoor environmental quality using uncertainty and sensitivity analysis for control components. <i>Energy and Buildings</i> , 2020, 225, 110308.	6.7	8
11	Critical review of standards for indoor thermal environment and air quality. <i>Energy and Buildings</i> , 2020, 213, 109819.	6.7	78
12	How can airborne transmission of COVID-19 indoors be minimised?. <i>Environment International</i> , 2020, 142, 105832.	10.0	933
13	The relationships between classroom air quality and children's performance in school. <i>Building and Environment</i> , 2020, 173, 106749.	6.9	94
14	Field measurement and modeling of UVC cooling coil irradiation for heating, ventilating, and air conditioning energy use reduction (RP-1738) Part 2: Energy, indoor air quality, and economic modeling. <i>Science and Technology for the Built Environment</i> , 2018, 24, 600-611.	1.7	4
15	IAQ 2016: Defining indoor air quality: Policy, standards and best practices. <i>Science and Technology for the Built Environment</i> , 2018, 24, 115-117.	1.7	0
16	Field measurement and modeling of UVC cooling coil irradiation for heating, ventilating, and air conditioning energy use reduction (RP-1738) Part 1: Field measurements. <i>Science and Technology for the Built Environment</i> , 2018, 24, 588-599.	1.7	1
17	Simulation and monetization of collateral airborne infection risk improvements from ultraviolet germicidal irradiation for coil maintenance. <i>Science and Technology for the Built Environment</i> , 2018, 24, 135-148.	1.7	4
18	Profiling occupant behaviour in Danish dwellings using time use survey data. <i>Energy and Buildings</i> , 2018, 177, 329-340.	6.7	50

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19	Effects of an ultraviolet coil irradiation system on the airside heat transfer coefficient and low \hat{P}^T syndrome in a hot and humid climate. <i>Science and Technology for the Built Environment</i> , 2017, 23, 582-593.	1.7	4
20	A new dual-collimation batch reactor for determination of ultraviolet inactivation rate constants for microorganisms in aqueous suspensions. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 674-680.	3.8	3
21	Natural ventilation potential for gymnasia – Case study of ventilation and comfort in a multisport facility in northeastern United States. <i>Building and Environment</i> , 2016, 108, 85-98.	6.9	20
22	Effectiveness of an ultraviolet germicidal irradiation system in enhancing cooling coil energy performance in a hot and humid climate. <i>Energy and Buildings</i> , 2016, 130, 321-329.	6.7	11
23	The influence of surface finishes on the energy demand of HVAC systems for existing buildings. <i>Energy and Buildings</i> , 2015, 95, 70-79.	6.7	31
24	Critical Review of Aerosol Particle Transport Models for Building HVAC Ducts. <i>Journal of Architectural Engineering</i> , 2009, 15, 74-83.	1.6	7
25	Estimating the effects of ambient conditions on the performance of UVGI air cleaners. <i>Building and Environment</i> , 2009, 44, 1362-1370.	6.9	21
26	Feasibility of wireless measurements for semi-empirical multizone airflow model tuning. <i>Building and Environment</i> , 2008, 43, 1507-1520.	6.9	65
27	Effects of HVAC System and Building Characteristics on Exposure of Occupants to Short-Duration Point Source Aerosol Releases. <i>Journal of Architectural Engineering</i> , 2007, 13, 84-94.	1.6	6
28	Improving Performance of HVAC Systems to Reduce Exposure to Aerosolized Infectious Agents in Buildings; Recommendations to Reduce Risks Posed by Biological Attacks. <i>Biosecurity and Bioterrorism</i> , 2006, 4, 41-54.	1.2	17
29	Constant flow rate charging characteristics of a full-scale stratified chilled water storage tank with double-ring slotted pipe diffusers. <i>Applied Thermal Engineering</i> , 2005, 25, 3067-3082.	6.0	55
30	Parametric Study of Single-Pipe Diffusers in Stratified Chilled Water Storage Tanks (RP-1185). <i>HVAC and R Research</i> , 2004, 10, 345-365.	0.6	9
31	Measured and Modeled Charging of a Stratified Chilled Water Thermal Storage Tank with Slotted Pipe Diffusers. <i>HVAC and R Research</i> , 2003, 9, 467-491.	0.6	19
32	Modeling Immune Building Systems for Bioterrorism Defense. <i>Journal of Architectural Engineering</i> , 2003, 9, 86-96.	1.6	26
33	Stack and Mechanical System Effects on Dispersion of Biological Agents in a Tall Building. , 2002, , 119.		1
34	Prospects for Cool Thermal Storage in a Competitive Electric Power Industry. <i>Journal of Architectural Engineering</i> , 1998, 4, 18-25.	1.6	1