

# 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	How can airborne transmission of COVID-19 indoors be minimised?. Environment International, 2020, 142, 105832.	10.0	933
2	A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691.	12.6	192
3	The relationships between classroom air quality and children's performance in school. Building and Environment, 2020, 173, 106749.	6.9	94
4	Critical review of standards for indoor thermal environment and air quality. Energy and Buildings, 2020, 213, 109819.	6.7	78
5	Feasibility of wireless measurements for semi-empirical multizone airflow model tuning. Building and Environment, 2008, 43, 1507-1520.	6.9	65
6	Constant flow rate charging characteristics of a full-scale stratified chilled water storage tank with double-ring slotted pipe diffusers. Applied Thermal Engineering, 2005, 25, 3067-3082.	6.0	55
7	Profiling occupant behaviour in Danish dwellings using time use survey data. Energy and Buildings, 2018, 177, 329-340.	6.7	50
8	Indoor air quality and health in schools: A critical review for developing the roadmap for the future school environment. Journal of Building Engineering, 2022, 57, 104908.	3.4	43
9	The influence of surface finishes on the energy demand of HVAC systems for existing buildings. Energy and Buildings, 2015, 95, 70-79.	6.7	31
10	Modeling Immune Building Systems for Bioterrorism Defense. Journal of Architectural Engineering, 2003, 9, 86-96.	1.6	26
11	Estimating the effects of ambient conditions on the performance of UVGI air cleaners. Building and Environment, 2009, 44, 1362-1370.	6.9	21
12	Natural ventilation potential for gymnasias – Case study of ventilation and comfort in a multisport facility in northeastern United States. Building and Environment, 2016, 108, 85-98.	6.9	20
13	Measured and Modeled Charging of a Stratified Chilled Water Thermal Storage Tank with Slotted Pipe Diffusers. HVAC and R Research, 2003, 9, 467-491.	0.6	19
14	The COVID-19 pandemic is a global indoor air crisis that should lead to change: A message commemorating 30 years of Indoor Air. Indoor Air, 2021, 31, 1683-1686.	4.3	19
15	Improving Performance of HVAC Systems to Reduce Exposure to Aerosolized Infectious Agents in Buildings; Recommendations to Reduce Risks Posed by Biological Attacks. Biosecurity and Bioterrorism, 2006, 4, 41-54.	1.2	17
16	Control of airborne infectious disease in buildings: Evidence and research priorities. Indoor Air, 2022, 32, .	4.3	14
17	Why Indoor Chemistry Matters: A National Academies Consensus Report. Environmental Science & Technology, 2022, 56, 10560-10563.	10.0	12
18	Effectiveness of an ultraviolet germicidal irradiation system in enhancing cooling coil energy performance in a hot and humid climate. Energy and Buildings, 2016, 130, 321-329.	6.7	11

#	ARTICLE	IF	CITATIONS
19	Parametric Study of Single-Pipe Diffusers in Stratified Chilled Water Storage Tanks (RP-1185). HVAC and R Research, 2004, 10, 345-365.	0.6	9
20	Performance of advanced control sequences in handling uncertainty in energy use and indoor environmental quality using uncertainty and sensitivity analysis for control components. Energy and Buildings, 2020, 225, 110308.	6.7	8
21	Critical Review of Aerosol Particle Transport Models for Building HVAC Ducts. Journal of Architectural Engineering, 2009, 15, 74-83.	1.6	7
22	Effects of HVAC System and Building Characteristics on Exposure of Occupants to Short-Duration Point Source Aerosol Releases. Journal of Architectural Engineering, 2007, 13, 84-94.	1.6	6
23	Effects of an ultraviolet coil irradiation system on the airside heat transfer coefficient and low $\hat{I}^*T$ syndrome in a hot and humid climate. Science and Technology for the Built Environment, 2017, 23, 582-593.	1.7	4
24	Field measurement and modeling of UVC cooling coil irradiation for heating, ventilating, and air conditioning energy use reduction (RP-1738)â€™Part 2: Energy, indoor air quality, and economic modeling. Science and Technology for the Built Environment, 2018, 24, 600-611.	1.7	4
25	Simulation and monetization of collateral airborne infection risk improvements from ultraviolet germicidal irradiation for coil maintenance. Science and Technology for the Built Environment, 2018, 24, 135-148.	1.7	4
26	Impact of control loop performance on energy use, air quality, and thermal comfort in building systems with advanced sequences of operation. Automation in Construction, 2021, 130, 103837.	9.8	4
27	A new dual-collimation batch reactor for determination of ultraviolet inactivation rate constants for microorganisms in aqueous suspensions. Journal of Photochemistry and Photobiology B: Biology, 2016, 162, 674-680.	3.8	3
28	Prospects for Cool Thermal Storage in a Competitive Electric Power Industry. Journal of Architectural Engineering, 1998, 4, 18-25.	1.6	1
29	Stack and Mechanical System Effects on Dispersion of Biological Agents in a Tall Building. , 2002, , 119.		1
30	Field measurement and modeling of UVC cooling coil irradiation for heating, ventilating, and air conditioning energy use reduction (RP-1738)â€™Part 1: Field measurements. Science and Technology for the Built Environment, 2018, 24, 588-599.	1.7	1
31	Critical Capability Needs for Reduction of Transmission of SARS-CoV-2 Indoors. Frontiers in Bioengineering and Biotechnology, 2021, 9, 641599.	4.1	1
32	IAQ 2016: Defining indoor air quality: Policy, standards and best practices. Science and Technology for the Built Environment, 2018, 24, 115-117.	1.7	0
33	Inactivation of Pathogens in Air Using Ultraviolet Direct Irradiation Below Exposure Limits. Journal of Research of the National Institute of Standards and Technology, 2022, 126, .	1.2	0
34	Model-Based Testbed for Uncertainty Quantification in Building Control Systems with Advanced Sequences of Operation. Journal of Architectural Engineering, 2022, 28, .	1.6	0