# Pawel Wargocki

## List of Publications by Year in descending order



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|---|---|---|---|
| 122 papers | 9,532 citations | 50170 46 h-index | 39575 94 g-index |
| 129 all docs | 129 docs citations | 129 times ranked | 6352 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | How can airborne transmission of COVID-19 indoors be minimised?. Environment International, 2020, 142, 105832. | 4.8 | 933 |
| 2 | Literature survey on how different factors influence human comfort in indoor environments. Building and Environment, 2011, 46, 922-937. | 3.0 | 790 |
| 3 | The Effects of Outdoor Air Supply Rate in an Office on Perceived Air Quality, Sick Building Syndrome (SBS) Symptoms and Productivity. Indoor Air, 2000, 10, 222-236. | 2.0 | 469 |
| 4 | Quantitative relationships between occupant satisfaction and satisfaction aspects of indoor environmental quality and building design. Indoor Air, 2012, 22, 119-131. | 2.0 | 391 |
| 5 | Perceived Air Quality, Sick Building Syndrome (SBS) Symptoms and Productivity in an Office with Two Different Pollution Loads. Indoor Air, 1999, 9, 165-179. | 2.0 | 367 |
| 6 | Ventilation and health in non-industrial indoor environments: report from a European Multidisciplinary Scientific Consensus Meeting (EUROVEN). Indoor Air, 2002, 12, 113-128. | 2.0 | 309 |
| 7 | Quantitative measurement of productivity loss due to thermal discomfort. Energy and Buildings, 2011, 43, 1057-1062. | 3.1 | 267 |
| 8 | Dismantling myths on the airborne transmission of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). Journal of Hospital Infection, 2021, 110, 89-96. | 1.4 | 264 |
| 9 | The Effects of Moderately Raised Classroom Temperatures and Classroom Ventilation Rate on the Performance of Schoolwork by Children (RP-1257). HVAC and R Research, 2007, 13, 193-220. | 0.9 | 245 |
| 10 | Effects of thermal discomfort in an office on perceived air quality, SBS symptoms, physiological responses, and human performance. Indoor Air, 2011, 21, 376-390. | 2.0 | 243 |
| 11 | Effects of exposure to carbon dioxide and bioeffluents on perceived air quality, self-assessed acute health symptoms, and cognitive performance. Indoor Air, 2017, 27, 47-64. | 2.0 | 214 |
| 12 | Can commonly-used fan-driven air cleaning technologies improve indoor air quality? A literature review. Atmospheric Environment, 2011, 45, 4329-4343. | 1.9 | 213 |
| 13 | A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691. | 6.0 | 192 |
| 14 | Providing better thermal and air quality conditions in school classrooms would be cost-effective. Building and Environment, 2013, 59, 581-589. | 3.0 | 188 |
| 15 | Ten questions concerning green buildings and indoor air quality. Building and Environment, 2017, 112, 351-358. | 3.0 | 179 |
| 16 | Questionnaire survey on factors influencing comfort with indoor environmental quality in Danish housing. Building and Environment, 2012, 50, 56-64. | 3.0 | 155 |
| 17 | Effects of pollution from personal computers on perceived air quality, SBS symptoms and productivity in offices. Indoor Air, 2004, 14, 178-187. | 2.0 | 153 |
| 18 | Ten questions concerning thermal and indoor air quality effects on the performance of office work and schoolwork. Building and Environment, 2017, 112, 359-366. | 3.0 | 152 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | The effects of bedroom air quality on sleep and nextâ€day performance. Indoor Air, 2016, 26, 679-686. | 2.0 | 142 |
| 20 | What does the scientific literature tell us about the ventilationâ€“health relationship in public and residential buildings?. Building and Environment, 2015, 94, 273-286. | 3.0 | 132 |
| 21 | Ventilation system type, classroom environmental quality and pupils' perceptions and symptoms. Building and Environment, 2014, 75, 46-57. | 3.0 | 117 |
| 22 | The Effects of Outdoor Air Supply Rate and Supply Air Filter Condition in Classrooms on the Performance of Schoolwork by Children (RP-1257). HVAC and R Research, 2007, 13, 165-191. | 0.9 | 116 |
| 23 | The performance and subjective responses of call-center operators with new and used supply air filters at two outdoor air supply rates. Indoor Air, 2004, 14, 7-16. | 2.0 | 108 |
| 24 | Performance, acute health symptoms and physiological responses during exposure to high air temperature and carbon dioxide concentration. Building and Environment, 2017, 114, 96-105. | 3.0 | 105 |
| 25 | Ten questions concerning well-being in the built environment. Building and Environment, 2020, 180, 106949. | 3.0 | 105 |
| 26 | Physiological responses during exposure to carbon dioxide and bioeffluents at levels typically occurring indoors. Indoor Air, 2017, 27, 65-77. | 2.0 | 100 |
| 27 | The relationships between classroom air quality and childrenâ€™s performance in school. Building and Environment, 2020, 173, 106749. | 3.0 | 94 |
| 28 | Association between classroom ventilation mode and learning outcome in Danish schools. Building and Environment, 2015, 92, 494-503. | 3.0 | 92 |
| 29 | The relationship between classroom temperature and childrenâ€™s performance in school. Building and Environment, 2019, 157, 197-204. | 3.0 | 79 |
| 30 | Human responses to carbon dioxide, a follow-up study at recommended exposure limits in non-industrial environments. Building and Environment, 2016, 100, 162-171. | 3.0 | 78 |
| 31 | Impacts of a clay plaster on indoor air quality assessed using chemical and sensory measurements. Building and Environment, 2012, 57, 370-376. | 3.0 | 77 |
| 32 | Subjective perceptions, symptom intensity and performance: a comparison of two independent studies, both changing similarly the pollution load in an office. Indoor Air, 2002, 12, 74-80. | 2.0 | 74 |
| 33 | Reducing burden of disease from residential indoor air exposures in Europe (HEALTHVENT project). Environmental Health, 2016, 15, 35. | 1.7 | 74 |
| 34 | Field study on thermal comfort and energy saving potential in 11 split air-conditioned office buildings in Changsha, China. Energy, 2019, 182, 471-482. | 4.5 | 73 |
| 35 | Human Ammonia Emission Rates under Various Indoor Environmental Conditions. Environmental Science & Technology, 2020, 54, 5419-5428. | 4.6 | 69 |
| 36 | Physiological and psychological reactions of subâ€tropically acclimatized subjects exposed to different indoor temperatures at a relative humidity of 70%. Indoor Air, 2019, 29, 215-230. | 2.0 | 63 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Review of parameters used to assess the quality of the indoor environment in Green Building certification schemes for offices and hotels. Energy and Buildings, 2020, 209, 109683. | 3.1 | 61 |
| 38 | Comparative analysis of modified PMV models and SET models to predict human thermal sensation in naturally ventilated buildings. Building and Environment, 2015, 92, 200-208. | 3.0 | 59 |
| 39 | Adaptive thermal comfort in naturally ventilated dormitory buildings in Changsha, China. Energy and Buildings, 2019, 186, 56-70. | 3.1 | 59 |
| 40 | Towards the definition of indicators for assessment of indoor air quality and energy performance in low-energy residential buildings. Energy and Buildings, 2017, 152, 492-502. | 3.1 | 58 |
| 41 | Indoor environmental quality, occupant perception, prevalence of sick building syndrome symptoms, and sick leave in a Green Mark Platinum-rated versus a non-Green Mark-rated building: A case study. Science and Technology for the Built Environment, 2015, 21, 35-44. | 0.8 | 57 |
| 42 | Use of visual CO<sub>2</sub>feedback as a retrofit solution for improving classroom air quality. Indoor Air, 2015, 25, 105-114. | 2.0 | 52 |
| 43 | Air quality in a simulated office environment as a result of reducing pollution sources and increasing ventilation. Energy and Buildings, 2002, 34, 775-783. | 3.1 | 51 |
| 44 | Changes in EEG signals during the cognitive activity at varying air temperature and relative humidity. Journal of Exposure Science and Environmental Epidemiology, 2020, 30, 285-298. | 1.8 | 51 |
| 45 | The Indoor Chemical Human Emissions and Reactivity (ICHEAR) project: Overview of experimental methodology and preliminary results. Indoor Air, 2020, 30, 1213-1228. | 2.0 | 51 |
| 46 | On the Development of Health-Based Ventilation Guidelines: Principles and Framework. International Journal of Environmental Research and Public Health, 2018, 15, 1360. | 1.2 | 50 |
| 47 | Sensory pollution sources in buildings. Indoor Air, 2004, 14, 82-91. | 2.0 | 49 |
| 48 | The Effects of Ventilation in Homes on Health. International Journal of Ventilation, 2013, 12, 101-118. | 0.2 | 49 |
| 49 | Sensory evaluation and chemical analysis of exhaled and dermally emitted bioeffluents. Indoor Air, 2018, 28, 146-163. | 2.0 | 48 |
| 50 | Heterogeneous Ozonolysis of Squalene: Gas-Phase Products Depend on Water Vapor Concentration. Environmental Science & Technology, 2019, 53, 14441-14448. | 4.6 | 48 |
| 51 | Bedroom ventilation: Review of existing evidence and current standards. Building and Environment, 2020, 184, 107229. | 3.0 | 47 |
| 52 | Indoor environmental quality, occupant satisfaction, and acute buildingâ€related health symptoms in Green Markâ€certified compared with nonâ€certified office buildings. Indoor Air, 2019, 29, 112-129. | 2.0 | 46 |
| 53 | Thermal effects on human performance in office environment measured by integrating task speed and accuracy. Applied Ergonomics, 2014, 45, 490-495. | 1.7 | 45 |
| 54 | Estimating the impact of indoor relative humidity on SARS-CoV-2 airborne transmission risk using a new modification of the Wells-Riley model. Building and Environment, 2021, 205, 108278. | 3.0 | 44 |

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|---|---|---|---|
| 55 | Emission Rates of Volatile Organic Compounds from Humans. Environmental Science & Technology, 2022, 56, 4838-4848. | 4.6 | 43 |
| 56 | 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. | 1.6 | 43 |
| 57 | Respiratory infection risk-based ventilation design method. Building and Environment, 2021, 206, 108387. | 3.0 | 42 |
| 58 | Electrostatic Precipitators as an Indoor Air Cleanerâ€"A Literature Review. Sustainability, 2020, 12, 8774. | 1.6 | 41 |
| 59 | Healthy Indoor Environments: The Need for a Holistic Approach. International Journal of Environmental Research and Public Health, 2018, 15, 1874. | 1.2 | 39 |
| 60 | The influence of ozone on self-evaluation of symptoms in a simulated aircraft cabin. Journal of Exposure Science and Environmental Epidemiology, 2008, 18, 272-281. | 1.8 | 37 |
| 61 | Perceived air quality and cognitive performance decrease at moderately raised indoor temperatures even when clothed for comfort. Indoor Air, 2020, 30, 841-859. | 2.0 | 36 |
| 62 | Indoor humidity of dwellings and association with building characteristics, behaviors and health in a northern climate. Building and Environment, 2021, 198, 107885. | 3.0 | 36 |
| 63 | Window and door opening behavior, carbon dioxide concentration, temperature, and energy use during the heating season in classrooms with different ventilation retrofitsâ€"ASHRAE RP1624. Science and Technology for the Built Environment, 2018, 24, 626-637. | 0.8 | 35 |
| 64 | Reducing classroom temperature in a tropical climate improved the thermal comfort and the performance of elementary school pupils. Indoor Air, 2018, 28, 892-904. | 2.0 | 34 |
| 65 | How does indoor environmental quality in green refurbished office buildings compare with the one in new certified buildings?. Building and Environment, 2020, 171, 106677. | 3.0 | 33 |
| 66 | The effect of a photocatalytic air purifier on indoor air quality quantified using different measuring methods. Building and Environment, 2010, 45, 1434-1440. | 3.0 | 31 |
| 67 | Determination of material emission signatures by PTR-MS and their correlations with odor assessments by human subjects. Indoor Air, 2010, 20, 341-354. | 2.0 | 29 |
| 68 | The Effects of Electrostatic Particle Filtration and Supply-Air Filter Condition in Classrooms on the Performance of Schoolwork by Children (RP-1257). HVAC and R Research, 2008, 14, 327-344. | 0.9 | 28 |
| 69 | Total OH Reactivity of Emissions from Humans: In Situ Measurement and Budget Analysis. Environmental Science & Technology, 2021, 55, 149-159. | 4.6 | 28 |
| 70 | Human Emissions of Size-Resolved Fluorescent Aerosol Particles: Influence of Personal and Environmental Factors. Environmental Science & Technology, 2021, 55, 509-518. | 4.6 | 28 |
| 71 | Can a photocatalytic air purifier be used to improve the perceived air quality indoors?. Indoor Air, 2010, 20, 255-262. | 2.0 | 26 |
| 72 | Meta-analysis of 35 studies examining the effect of indoor temperature on office work performance. Building and Environment, 2021, 203, 108037. | 3.0 | 26 |

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|---|---|---|---|
| 73 | Sensory pollution loads in six office buildings and a department store. Energy and Buildings, 2004, 36, 995-1001. | 3.1 | 25 |
| 74 | TAIL, a new scheme for rating indoor environmental quality in offices and hotels undergoing deep energy renovation (EU ALDREN project). Energy and Buildings, 2021, 244, 111029. | 3.1 | 25 |
| 75 | The effects of ventilation and temperature on sleep quality and next-day work performance: pilot measurements in a climate chamber. Building and Environment, 2022, 209, 108666. | 3.0 | 25 |
| 76 | Breathing zone and exhaled air reâ€inhalation rate under transient conditions assessed with a computerâ€simulated person. Indoor Air, 2022, 32, e13003. | 2.0 | 23 |
| 77 | Cerebral blood flow, fatigue, mental effort, and task performance in offices with two different pollution loads. Building and Environment, 2014, 71, 153-164. | 3.0 | 22 |
| 78 | Cognitive performance was reduced by higher air temperature even when thermal comfort was maintained over the 24â€“28Â°C range. Indoor Air, 2022, 32, . | 2.0 | 21 |
| 79 | Measurements of the Effects of Air Quality on Sensory Perception. Chemical Senses, 2001, 26, 345-348. | 1.1 | 20 |
| 80 | Development of a novel methodology for indoor emission source identification. Atmospheric Environment, 2011, 45, 3034-3045. | 1.9 | 19 |
| 81 | Respiratory performance of humans exposed to moderate levels of carbon dioxide. Indoor Air, 2021, 31, 1540-1552. | 2.0 | 19 |
| 82 | The COVIDâ€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. | 2.0 | 19 |
| 83 | Pilot study of the effects of ventilation and ventilation noise on sleep quality in the young and elderly. Indoor Air, 2021, 31, 2226-2238. | 2.0 | 18 |
| 84 | Investigating the relation between electroencephalogram, thermal comfort, and cognitive performance in neutral to hot indoor environment. Indoor Air, 2022, 32, . | 2.0 | 18 |
| 85 | Cabin air quality on nonâ€smoking commercial flights: A review of published data on airborne pollutants. Indoor Air, 2021, 31, 926-957. | 2.0 | 17 |
| 86 | Emission rate of carbon dioxide while sleeping. Indoor Air, 2021, 31, 2142-2157. | 2.0 | 17 |
| 87 | A survey of bedroom ventilation types and the subjective sleep quality associated with them in Danish housing. Science of the Total Environment, 2021, 798, 149209. | 3.9 | 17 |
| 88 | Association of bedroom environment with the sleep quality of elderly subjects in summer: A field measurement in Shanghai, China. Building and Environment, 2022, 208, 108572. | 3.0 | 16 |
| 89 | Comparison of wrist skin temperature with mean skin temperature calculated with Hardy and Dubois's seven-point method while sleeping. Energy and Buildings, 2022, 259, 111894. | 3.1 | 16 |
| 90 | Model-based approach to account for the variation of primary VOC emissions over time in the identification of indoor VOC sources. Building and Environment, 2012, 57, 403-416. | 3.0 | 15 |

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|---|---|---|---|
| 91 | Effects of Exposure to Carbon Dioxide and Human Bioeffluents on Cognitive Performance. Procedia Engineering, 2015, 121, 138-142. | 1.2 | 15 |
| 92 | The effects of cement-based and cement-ash-based mortar slabs on indoor air quality. Building and Environment, 2018, 135, 213-223. | 3.0 | 15 |
| 93 | The effects of warmth and CO <sub>2</sub> concentration, with and without bioeffluents, on the emission of CO <sub>2</sub> by occupants and physiological responses. Indoor Air, 2021, 31, 2176-2187. | 2.0 | 15 |
| 94 | Effects of increased activity level on physiological and subjective responses at different high temperatures. Building and Environment, 2021, 201, 108011. | 3.0 | 15 |
| 95 | Ozone Initiates Human-Derived Emission of Nanocluster Aerosols. Environmental Science & Technology, 2021, 55, 14536-14545. | 4.6 | 15 |
| 96 | Effects of window opening on the bedroom environment and resulting sleep quality. Science and Technology for the Built Environment, 2021, 27, 995-1015. | 0.8 | 13 |
| 97 | Effect of Increased Cabin Recirculation Airflow Fraction on Relative Humidity, CO2 and TVOC. Aerospace, 2021, 8, 15. | 1.1 | 11 |
| 98 | Responses to Human Bioeffluents at Levels Recommended by Ventilation Standards. Procedia Engineering, 2017, 205, 609-614. | 1.2 | 10 |
| 99 | The future of IEQ in green building certifications. Buildings and Cities, 2021, 2, 907-927. | 1.1 | 10 |
| 100 | CO2 emission rates from sedentary subjects under controlled laboratory conditions. Building and Environment, 2022, 211, 108735. | 3.0 | 10 |
| 101 | The Proportion of Residences in European Countries with Ventilation Rates below the Regulation Based Limit Value. International Journal of Ventilation, 2013, 12, 129-134. | 0.2 | 9 |
| 102 | What are indoor air quality priorities for energy-efficient buildings?. Indoor and Built Environment, 2015, 24, 579-582. | 1.5 | 9 |
| 103 | Effect of Ozone, Clothing, Temperature, and Humidity on the Total OH Reactivity Emitted from Humans. Environmental Science & Technology, 2021, 55, 13614-13624. | 4.6 | 9 |
| 104 | Human metabolic emissions of carbon dioxide and methane and their implications for carbon emissions. Science of the Total Environment, 2022, 833, 155241. | 3.9 | 9 |
| 105 | Modeling the impact of indoor relative humidity on the infection risk of five respiratory airborne viruses. Scientific Reports, 2022, 12, . | 1.6 | 9 |
| 106 | Detailed characterization of bedroom ventilation during heating season in a naturally ventilated semi-detached house and a mechanically ventilated apartment. Science and Technology for the Built Environment, 2021, 27, 158-180. | 0.8 | 7 |
| 107 | VENTILATION: WHY does no one take it seriously?. Indoor Air, 2021, 31, 605-607. | 2.0 | 6 |
| 108 | Study of the measured and perceived indoor air quality in Swedish school classrooms. IOP Conference Series: Earth and Environmental Science, 0, 588, 032070. | 0.2 | 5 |

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|---|---|---|---|
| 109 | The Adaptive Thermal Comfort model may not always predict thermal effects on performance. Indoor Air, 2014, 24, 552-553. | 2.0 | 4 |
| 110 | Ventilation System Type and the Resulting Classroom Temperature and Air Quality During Heating Season. Lecture Notes in Electrical Engineering, 2014, , 203-214. | 0.3 | 4 |
| 111 | PredicTAIL, a prediction method for indoor environmental quality in buildings undergoing deep energy renovation based on the TAIL rating scheme. Energy and Buildings, 2022, 258, 111839. | 3.1 | 4 |
| 112 | Warmth and performance: reply to the letter from Leyten and Kurvers (2013). Indoor Air, 2013, 23, 437-438. | 2.0 | 2 |
| 113 | ISIAQ Academy Awards 2014. Indoor Air, 2014, 24, 447-449. | 2.0 | 2 |
| 114 | Editorial - special issue on Indoor pollutants, chemistry and health. Building and Environment, 2015, 93, 1-2. | 3.0 | 2 |
| 115 | The influence of the combined effect of draught and radiant thermal asymmetry on human performance. E3S Web of Conferences, 2019, 111, 06004. | 0.2 | 1 |
| 116 | Congratulations to the recipients of the Academy of Fellows of ISIAQ Awards 2020. Indoor Air, 2021, 31, 1687-1690. | 2.0 | 1 |
| 117 | Occupant Emissions and Chemistry. , 2022, , 1-27. | | 1 |
| 118 | ISIAQ Academy Awards 2016. Indoor Air, 2017, 27, 705-707. | 2.0 | 0 |
| 119 | Effect of increased cabin recirculation airflow fraction on relative humidity, CO2 and TVOC. IOP Conference Series: Materials Science and Engineering, 2021, 1024, 012092. | 0.3 | 0 |
| 120 | Response to the Letter to the Editor sent by Judith Anderson, industrial hygienist at the association of flight attendants. Indoor Air, 2022, 32, e13006. | 2.0 | 0 |
| 121 | Economic Consequences. , 2022, , 1-11. | | 0 |
| 122 | A European project SysPAQ. , 0, , 467-480. | | 0 |