

# Arsen K Melikov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7276622/publications.pdf>

Version: 2024-02-01

47  
papers

3,721  
citations

186265

28  
h-index

223800

46  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2845  
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	Personalized ventilation. Indoor Air, 2004, 14, 157-167.	4.3	315
3	Dismantling myths on the airborne transmission of severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2). Journal of Hospital Infection, 2021, 110, 89-96.	2.9	264
4	Personalized ventilation: evaluation of different air terminal devices. Energy and Buildings, 2002, 34, 829-836.	6.7	258
5	Airborne spread of expiratory droplet nuclei between the occupants of indoor environments: A review. Indoor Air, 2018, 28, 500-524.	4.3	193
6	Experimental investigation of the human convective boundary layer in a quiescent indoor environment. Building and Environment, 2014, 75, 79-91.	6.9	123
7	Advanced air distribution: improving health and comfort while reducing energy use. Indoor Air, 2016, 26, 112-124.	4.3	121
8	Particle deposition in a realistic geometry of the human conducting airways: Effects of inlet velocity profile, inhalation flowrate and electrostatic charge. Journal of Biomechanics, 2016, 49, 2201-2212.	2.1	117
9	Performance of Personalized Ventilation in Conjunction with Mixing and Displacement Ventilation. HVAC and R Research, 2006, 12, 295-311.	0.6	107
10	Use of personalized ventilation for improving health, comfort, and performance at high room temperature and humidity. Indoor Air, 2013, 23, 250-263.	4.3	90
11	Human body micro-environment: The benefits of controlling airflow interaction. Building and Environment, 2015, 91, 70-77.	6.9	88
12	Thermal environment and air quality in office with personalized ventilation combined with chilled ceiling. Building and Environment, 2015, 92, 603-614.	6.9	76
13	Protection of Occupants from Exhaled Infectious Agents and Floor Material Emissions in Rooms with Personalized and Underfloor Ventilation. HVAC and R Research, 2007, 13, 23-38.	0.6	75
14	COVID-19: Reduction of airborne transmission needs paradigm shift in ventilation. Building and Environment, 2020, 186, 107336.	6.9	73
15	Breathing thermal manikins for indoor environment assessment: important characteristics and requirements. European Journal of Applied Physiology, 2004, 92, 710-713.	2.5	64
16	Human Response to an Individually Controlled Microenvironment. HVAC and R Research, 2007, 13, 645-660.	0.6	64
17	Impact of personal factors and furniture arrangement on the thermal plume above a sitting occupant. Building and Environment, 2012, 49, 104-116.	6.9	64
18	Intermittent occupancy combined with ventilation: An efficient strategy for the reduction of airborne transmission indoors. Science of the Total Environment, 2020, 744, 140908.	8.0	60

#	ARTICLE	IF	CITATIONS
19	Performance of "ductless" personalized ventilation in conjunction with displacement ventilation: Impact of disturbances due to walking person(s). <i>Building and Environment</i> , 2010, 45, 427-436.	6.9	50
20	Personal Exposure Between People in a Room Ventilated by Textile Terminals" with and without Personalized Ventilation. <i>HVAC and R Research</i> , 2007, 13, 635-643.	0.6	47
21	Influence of pulmonary ventilation rate and breathing cycle period on the risk of cross-infection. <i>Indoor Air</i> , 2019, 29, 993-1004.	4.3	43
22	Human response to local convective and radiant cooling in a warm environment. <i>HVAC and R Research</i> , 2013, 19, 1023-1032.	0.6	39
23	Airborne transmission of exhaled droplet nuclei between occupants in a room with horizontal air distribution. <i>Building and Environment</i> , 2019, 163, 106328.	6.9	38
24	Airborne transmission between room occupants during short-term events: Measurement and evaluation. <i>Indoor Air</i> , 2019, 29, 563-576.	4.3	35
25	Infection probability under different air distribution patterns. <i>Building and Environment</i> , 2022, 207, 108555.	6.9	35
26	Effect of airflow interaction in the breathing zone on exposure to bio-effluents. <i>Building and Environment</i> , 2017, 125, 216-226.	6.9	33
27	Advanced air distribution for minimizing airborne cross-infection in aircraft cabins. <i>HVAC and R Research</i> , 2013, 19, 926-933.	0.6	32
28	Control of the Free Convective Flow around the Human Body for Enhanced Inhaled Air Quality: Application to a Seat-Incorporated Personalized Ventilation Unit. <i>HVAC and R Research</i> , 2010, 16, 161-188.	0.6	31
29	Wearable personal exhaust ventilation: Improved indoor air quality and reduced exposure to air exhaled from a sick doctor. <i>Science and Technology for the Built Environment</i> , 2015, 21, 1117-1125.	1.7	28
30	Introduction of a Cooling-Fan Efficiency Index. <i>HVAC and R Research</i> , 2009, 15, 1121-1144.	0.6	26
31	Transport of gaseous pollutants by convective boundary layer around a human body. <i>Science and Technology for the Built Environment</i> , 2015, 21, 1175-1186.	1.7	26
32	Human Response to Air Movement" Evaluation of ASHRAE's Draft Criteria (RP-843). <i>HVAC and R Research</i> , 2003, 9, 187-202.	0.6	25
33	Air Quality and Thermal Comfort in an Office with Underfloor, Mixing and Displacement Ventilation. <i>International Journal of Ventilation</i> , 2006, 5, 323-352.	0.4	22
34	Air temperature investigation in microenvironment around a "human" body. <i>Building and Environment</i> , 2015, 92, 39-47.	6.9	21
35	Accurate assessment of exposure using tracer gas measurements. <i>Building and Environment</i> , 2018, 131, 163-173.	6.9	21
36	Improved inhaled air quality at reduced ventilation rate by control of airflow interaction at the breathing zone with lobed jets. <i>HVAC and R Research</i> , 2014, 20, 238-250.	0.6	17

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37	A visual description of the convective flow field around the head of a human. <i>Journal of Visualization</i> , 2005, 8, 23-31.	1.8	15
38	Assessment of Uncertainty in Measurements with Low Velocity Thermal Anemometers. <i>International Journal of Ventilation</i> , 2007, 6, 113-128.	0.4	11
39	Towards enabling accurate measurements of CO2 exposure indoors. <i>Building and Environment</i> , 2022, 213, 108883.	6.9	11
40	The effects of mixing air distribution and heat load arrangement on the performance of ceiling radiant panels under cooling mode of operation. <i>Science and Technology for the Built Environment</i> , 2017, 23, 1090-1104.	1.7	7
41	Experimental comparison of thermal conditions in office rooms: Diffuse ceiling ventilation, chilled beam system, and chilled ceiling combined with mixing ventilation. <i>Science and Technology for the Built Environment</i> , 2020, 26, 631-642.	1.7	7
42	A reliable method for the assessment of occupants' exposure to CO2. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 163, 108063.	5.0	6
43	The influence of heat source distribution on the space cooling load oriented to local thermal requirements. <i>Indoor and Built Environment</i> , 2021, 30, 264-277.	2.8	4
44	The Energy-Saving Potential of Chilled Ceilings Combined with Personalized Ventilation. <i>Energies</i> , 2021, 14, 1133.	3.1	3
45	Add-on local sweating simulation system for a dry thermal manikin. <i>Science and Technology for the Built Environment</i> , 2021, 27, 971-985.	1.7	2
46	Characteristics of airborne transmission under stratum ventilation. <i>E3S Web of Conferences</i> , 2019, 111, 02019.	0.5	1
47	Airborne transmission during short-term events under stratum ventilation. <i>E3S Web of Conferences</i> , 2019, 111, 01098.	0.5	0