

Chandra Sekhar

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

2,689
citations

304602

22
h-index

360920

35
g-index

38
all docs

38
docs citations

38
times ranked

3004
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	Development of the ASHRAE Global Thermal Comfort Database II. Building and Environment, 2018, 142, 502-512.	3.0	279
3	Airflow Dynamics of Human Jets: Sneezing and Breathing - Potential Sources of Infectious Aerosols. PLoS ONE, 2013, 8, e59970.	1.1	216
4	A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691.	6.0	192
5	Experimental investigation of the human convective boundary layer in a quiescent indoor environment. Building and Environment, 2014, 75, 79-91.	3.0	123
6	Energy analysis of the personalized ventilation system in hot and humid climates. Energy and Buildings, 2010, 42, 699-707.	3.1	104
7	Ceiling mounted personalized ventilation system in hot and humid climateâ€”An energy analysis. Energy and Buildings, 2010, 42, 2304-2308.	3.1	75
8	Occupancy-based zone-level VAV system control implications on thermal comfort, ventilation, indoor air quality and building energy efficiency. Energy and Buildings, 2019, 204, 109473.	3.1	69
9	Airflow Dynamics of Coughing in Healthy Human Volunteers by Shadowgraph Imaging: An Aid to Aerosol Infection Control. PLoS ONE, 2012, 7, e34818.	1.1	60
10	Life cycle cost analysis (LCCA) of PV-powered cooling systems with thermal energy and battery storage for off-grid applications. Applied Energy, 2020, 273, 115145.	5.1	57
11	Energy saving estimation for plug and lighting load using occupancy analysis. Renewable Energy, 2019, 143, 1143-1161.	4.3	49
12	Cooling efficiency of a brushless direct current stand fan. Building and Environment, 2015, 85, 196-204.	3.0	42
13	Hierarchical Sensor Placement Using Joint Entropy and the Effect of Modeling Error. Entropy, 2014, 16, 5078-5101.	1.1	40
14	A review of occupancy-based building energy and IEQ controls and its future post-COVID. Science of the Total Environment, 2022, 804, 150249.	3.9	37
15	Performance evaluation of an integrated Personalized Ventilationâ€”Personalized Exhaust system in conjunction with two background ventilation systems. Building and Environment, 2014, 78, 103-110.	3.0	36
16	Computational fluid dynamics study and evaluation of different personalized exhaust devices. HVAC and R Research, 2013, 19, 934-946.	0.9	31
17	Occupancy-based energy consumption modelling using machine learning algorithms for institutional buildings. Energy and Buildings, 2021, 252, 111478.	3.1	31
18	A time-based analysis of the personalized exhaust system for airborne infection control in healthcare settings. Science and Technology for the Built Environment, 2015, 21, 172-178.	0.8	28

#	ARTICLE	IF	CITATIONS
19	Thermal comfort and energy performance of a dedicated outdoor air system with ceiling fans in hot and humid climate. <i>Energy and Buildings</i> , 2019, 203, 109448.	3.1	28
20	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.	0.8	26
21	Effects of temperature, air movement and initial metabolic rate on thermal sensation during transient state in the tropics. <i>Building and Environment</i> , 2019, 155, 70-82.	3.0	26
22	Levelised Cost of Storage (LCOS) for solar-PV-powered cooling in the tropics. <i>Applied Energy</i> , 2019, 242, 640-654.	5.1	24
23	Absence of Detectable Influenza RNA Transmitted via Aerosol during Various Human Respiratory Activities – Experiments from Singapore and Hong Kong. <i>PLoS ONE</i> , 2014, 9, e107338.	1.1	21
24	Computation of zone-level ventilation requirement based on actual occupancy, plug and lighting load information. <i>Indoor and Built Environment</i> , 2020, 29, 558-574.	1.5	19
25	Global sensitivity and uncertainty analysis of the levelised cost of storage (LCOS) for solar-PV-powered cooling. <i>Applied Energy</i> , 2021, 286, 116533.	5.1	19
26	Interaction of dynamic indoor environment with moving person and performance of ceiling mounted personalized ventilation system. <i>Indoor and Built Environment</i> , 2014, 23, 920-932.	1.5	17
27	A survey of bedroom ventilation types and the subjective sleep quality associated with them in Danish housing. <i>Science of the Total Environment</i> , 2021, 798, 149209.	3.9	17
28	Study of an integrated personalized ventilation and local fan-induced active chilled beam air conditioning system in hot and humid climate. <i>Building Simulation</i> , 2018, 11, 787-801.	3.0	14
29	Evaluating predictive performance of sensor configurations in wind studies around buildings. <i>Advanced Engineering Informatics</i> , 2016, 30, 127-142.	4.0	13
30	Indoor environment evaluation of a Dedicated Outdoor Air System with ceiling fans in the tropics – A thermal manikin study. <i>Building and Environment</i> , 2018, 143, 605-617.	3.0	13
31	Adaptable cooling coil performance during part loads in the tropics – A computational evaluation. <i>Energy and Buildings</i> , 2018, 159, 148-163.	3.1	12
32	Performance characteristics of a fan filter unit (FFU) in mitigating particulate matter levels in a naturally ventilated classroom during haze conditions. <i>Indoor Air</i> , 2021, 31, 795-806.	2.0	11
33	Assessment of airflow and heat transfer around a thermal manikin in a premise served by DOAS and ceiling fans. <i>Building and Environment</i> , 2022, 214, 108902.	3.0	7
34	Thermal and perceived air quality responses between a dedicated outdoor air system with ceiling fans and conventional air-conditioning system. <i>Building and Environment</i> , 2021, 190, 107574.	3.0	6
35	Levelised Cost of Thermal Energy Storage and Battery Storage to Store Solar PV Energy for Cooling Purpose. , 2018, , .		6
36	Assessment of Home-Based and Mobility-Based Exposure to Black Carbon in an Urban Environment: A Pilot Study. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 5028.	1.2	4

#	ARTICLE	IF	CITATIONS
37	Energy Storage for PV-Driven Air-Conditioning for an Off-Grid Resort – A Case Study. , 2017, , .		4