Chandra Sekhar

List of Publications by Year
in descending order

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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	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
2	Assessment of airflow and heat transfer around a thermal manikin in a premise served by DOAS and ceiling fans. Building and Environment, 2022, 214, 108902.	3.0	7
3	Performance characteristics of a fan filter unit (FFU) in mitigating particulate matter levels in a naturally ventilated classroom during haze conditions. Indoor Air, 2021, 31, 795-806.	2.0	11
4	Thermal and perceived air quality responses between a dedicated outdoor air system with ceiling fans and conventional air-conditioning system. Building and Environment, 2021, 190, 107574.	3.0	6
5	Global sensitivity and uncertainty analysis of the levelised cost of storage (LCOS) for solar-PV-powered cooling. Applied Energy, 2021, 286, 116533.	5.1	19
6	A paradigm shift to combat indoor respiratory infection. Science, 2021, 372, 689-691.	6.0	192
7	Assessment of Home-Based and Mobility-Based Exposure to Black Carbon in an Urban Environment: A Pilot Study. International Journal of Environmental Research and Public Health, 2021, 18, 5028.	1.2	4
8	Occupancy-based energy consumption modelling using machine learning algorithms for institutional buildings. Energy and Buildings, 2021, 252, 111478.	3.1	31
9	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
10	Computation of zone-level ventilation requirement based on actual occupancy, plug and lighting load information. Indoor and Built Environment, 2020, 29, 558-574.	1.5	19
11	How can airborne transmission of COVID-19 indoors be minimised?. Environment International, 2020, 142, 105832.	4.8	933
12	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
13	Thermal comfort and energy performance of a dedicated outdoor air system with ceiling fans in hot and humid climate. Energy and Buildings, 2019, 203, 109448.	3.1	28
14	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
15	Energy saving estimation for plug and lighting load using occupancy analysis. Renewable Energy, 2019, 143, 1143-1161.	4.3	49
16	Effects of temperature, air movement and initial metabolic rate on thermal sensation during transient state in the tropics. Building and Environment, 2019, 155, 70-82.	3.0	26
17	Levelised Cost of Storage (LCOS) for solar-PV-powered cooling in the tropics. Applied Energy, 2019, 242, 640-654.	5.1	24
18	Study of an integrated personalized ventilation and local fan-induced active chilled beam air conditioning system in hot and humid climate. Building Simulation, 2018, 11, 787-801.	3.0	14

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19	Adaptable cooling coil performance during part loads in the tropicsâ€"A computational evaluation. Energy and Buildings, 2018, 159, 148-163.	3.1	12
20	Development of the ASHRAE Global Thermal Comfort Database II. Building and Environment, 2018, 142, 502-512.	3.0	279
21	Indoor environment evaluation of a Dedicated Outdoor Air System with ceiling fans in the tropics â€“ A thermal manikin study. Building and Environment, 2018, 143, 605-617.	3.0	13
22	Levelised Cost of Thermal Energy Storage and Battery Storage to Store Solar PV Energy for Cooling Purpose. , 2018, , .		6
23	Energy Storage for PV-Driven Air-Conditioning for an Off-Grid Resort â€“ A Case Study. , 2017, , .		4
24	Evaluating predictive performance of sensor configurations in wind studies around buildings. Advanced Engineering Informatics, 2016, 30, 127-142.	4.0	13
25	Transport of gaseous pollutants by convective boundary layer around a human body. Science and Technology for the Built Environment, 2015, 21, 1175-1186.	0.8	26
26	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
27	Cooling efficiency of a brushless direct current stand fan. Building and Environment, 2015, 85, 196-204.	3.0	42
28	Absence of Detectable Influenza RNA Transmitted via Aerosol during Various Human Respiratory Activities â€“ Experiments from Singapore and Hong Kong. PLoS ONE, 2014, 9, e107338.	1.1	21
29	Hierarchical Sensor Placement Using Joint Entropy and the Effect of Modeling Error. Entropy, 2014, 16, 5078-5101.	1.1	40
30	Interaction of dynamic indoor environment with moving person and performance of ceiling mounted personalized ventilation system. Indoor and Built Environment, 2014, 23, 920-932.	1.5	17
31	Experimental investigation of the human convective boundary layer in a quiescent indoor environment. Building and Environment, 2014, 75, 79-91.	3.0	123
32	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
33	Computational fluid dynamics study and evaluation of different personalized exhaust devices. HVAC and R Research, 2013, 19, 934-946.	0.9	31
34	Airflow Dynamics of Human Jets: Sneezing and Breathing - Potential Sources of Infectious Aerosols. PLoS ONE, 2013, 8, e59970.	1.1	216
35	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
36	Energy analysis of the personalized ventilation system in hot and humid climates. Energy and Buildings, 2010, 42, 699-707.	3.1	104

#	Article	IF	Citations
37	Ceiling mounted personalized ventilation system in hot and humid climateâ€”An energy analysis. Energy and Buildings, 2010, 42, 2304-2308.	3.1	75