Qingyan Chen

List of Publications by Citations

211 papers	8,536 citations	50 h-index	84 g-index
222 ext. papers	10,067 ext. citations	5.3 avg, IF	6.8 L-index

#	Paper	IF	Citations
211	Ventilation performance prediction for buildings: A method overview and recent applications. *Building and Environment*, **2009**, 44, 848-858	6.5	572
210	Characterizing exhaled airflow from breathing and talking. *Indoor Air*, **2010**, 20, 31-9	5.4	260
209	Comparison of the Eulerian and Lagrangian methods for predicting particle transport in enclosed spaces. *Atmospheric Environment*, **2007**, 41, 5236-5248	5.3	251
208	Studies of outdoor thermal comfort in northern China. *Building and Environment*, **2014**, 77, 110-118	6.5	231
207	Natural ventilation in buildings: measurement in a wind tunnel and numerical simulation with large-eddy simulation. *Journal of Wind Engineering and Industrial Aerodynamics*, **2003**, 91, 331-353	3.7	223
206	Experimental measurements and numerical simulations of particle transport and distribution in ventilated rooms. *Atmospheric Environment*, **2006**, 40, 3396-3408	5.3	213
205	A zero-equation turbulence model for indoor airflow simulation. *Energy and Buildings*, **1998**, 28, 137-144	7	210
204	Impact of climate change heating and cooling energy use in buildings in the United States. *Energy and Buildings*, **2014**, 82, 428-436	7	190
203	Experimental and numerical investigation of airflow and contaminant transport in an airliner cabin mockup. *Building and Environment*, **2009**, 44, 85-94	6.5	190
202	Design analysis of single-sided natural ventilation. *Energy and Buildings*, **2003**, 35, 785-795	7	187
201	A review of mitigating strategies to improve the thermal environment and thermal comfort in urban outdoor spaces. *Science of the Total Environment*, **2019**, 661, 337-353	10.2	185
200	On approaches to couple energy simulation and computational fluid dynamics programs. *Building and Environment*, **2002**, 37, 857-864	6.5	174
199	Novel air distribution systems for commercial aircraft cabins. *Building and Environment*, **2007**, 42, 1675-1684	6.5	132
198	A Procedure for Verification, Validation, and Reporting of Indoor Environment CFD Analyses. *HVAC and R Research*, **2002**, 8, 201-216		130
197	Prediction of particle deposition onto indoor surfaces by CFD with a modified Lagrangian method. *Atmospheric Environment*, **2009**, 43, 319-328	5.3	126
196	Buoyancy-driven single-sided natural ventilation in buildings with large openings. *International Journal of Heat and Mass Transfer*, **2003**, 46, 973-988	4.9	117
195	Transport of expiratory droplets in an aircraft cabin. *Indoor Air*, **2011**, 21, 3-11	5.4	114

194	Flow and contaminant transport in an airliner cabin induced by a moving body: Model experiments and CFD predictions. *Atmospheric Environment*, **2010**, 44, 2830-2839	5.3	100
193	Effect of fluctuating wind direction on cross natural ventilation in buildings from large eddy simulation. *Building and Environment*, **2002**, 37, 379-386	6.5	100
192	Study of natural ventilation in buildings by large eddy simulation. *Journal of Wind Engineering and Industrial Aerodynamics*, **2001**, 89, 1155-1178	3.7	97
191	INDOORAIRQUALITYFACTORS INDESIGNING AHEALTHYBUILDING. *Annual Review of Environment and Resources*, **2000**, 25, 567-600		96
190	Assessment of Various Turbulence Models for Transitional Flows in an Enclosed Environment (RP-1271). *HVAC and R Research*, **2009**, 15, 1099-1119		95
189	Particle image velocimetry measurement of indoor airflow field: A review of the technologies and applications. *Energy and Buildings*, **2014**, 69, 367-380	7	92
188	Accurate and high-resolution boundary conditions and flow fields in the first-class cabin of an MD-82 commercial airliner. *Atmospheric Environment*, **2012**, 56, 33-44	5.3	82
187	A new empirical model for predicting single-sided, wind-driven natural ventilation in buildings. *Energy and Buildings*, **2012**, 54, 386-394	7	82
186	Outdoor space quality: A field study in an urban residential community in central China. *Energy and Buildings*, **2014**, 68, 713-720	7	81
185	Natural ventilation design for houses in Thailand. *Energy and Buildings*, **2001**, 33, 815-824	7	80
184	Solution characters of iterative coupling between energy simulation and CFD programs. *Energy and Buildings*, **2003**, 35, 493-505	7	79
183	Using computational tools to factor wind into architectural environment design. *Energy and Buildings*, **2004**, 36, 1197-1209	7	71
182	Large eddy simulation of indoor airflow with a filtered dynamic subgrid scale model. *International Journal of Heat and Mass Transfer*, **2000**, 43, 3219-3231	4.9	70
181	Ventilation performance prediction for buildings: Model assessment. *Building and Environment*, **2010**, 45, 295-303	6.5	68
180	Simplified Numerical Models for Complex Air Supply Diffusers. *HVAC and R Research*, **2002**, 8, 277-294		67
179	Evaluation of various categories of turbulence models for predicting air distribution in an airliner cabin. *Building and Environment*, **2013**, 65, 118-131	6.5	66
178	Risk assessment of airborne infectious diseases in aircraft cabins. *Indoor Air*, **2012**, 22, 388-95	5.4	65
177	Advanced turbulence models for predicting particle transport in enclosed environments. *Building and Environment*, **2012**, 47, 40-49	6.5	64

176	State-of-the-art methods for studying air distributions in commercial airliner cabins. *Building and Environment*, **2012**, 47, 5-12	6.5	62
175	Fast and informative flow simulations in a building by using fast fluid dynamics model on graphics processing unit. *Building and Environment*, **2010**, 45, 747-757	6.5	60
174	Influence of surrounding buildings on wind flow around a building predicted by CFD simulations. *Building and Environment*, **2018**, 140, 1-10	6.5	59
173	Floor-supply displacement ventilation for workshops. *Building and Environment*, **2007**, 42, 1718-1730	6.5	58
172	Using CFD Capabilities of CONTAM 3.0 for Simulating Airflow and Contaminant Transport in and around Buildings. *HVAC and R Research*, **2010**, 16, 749-763		57
171	Experimental Study on Displacement and Mixing Ventilation Systems for a Patient Ward. *HVAC and R Research*, **2009**, 15, 1175-1191		57
170	Evaluation of some assumptions used in multizone airflow network models. *Building and Environment*, **2008**, 43, 1671-1677	6.5	57
169	CFD simulations of wind distribution in an urban community with a full-scale geometrical model. *Building and Environment*, **2017**, 117, 11-23	6.5	55
168	A Markov chain model for predicting transient particle transport in enclosed environments. *Building and Environment*, **2015**, 90, 30-36	6.5	55
167	Design optimization and field demonstration of natural ventilation for high-rise residential buildings. *Energy and Buildings*, **2014**, 82, 457-465	7	55
166	Inverse prediction and optimization of flow control conditions for confined spaces using a CFD-based genetic algorithm. *Building and Environment*, **2013**, 64, 77-84	6.5	54
165	Experimental and simulation study on the performance of daylighting in an industrial building and its energy saving potential. *Energy and Buildings*, **2014**, 73, 184-191	7	52
164	Impact of scaling and body movement on contaminant transport in airliner cabins. *Atmospheric Environment*, **2011**, 45, 6019-6028	5.3	51
163	Numerical determination and treatment of convective heat transfer coefficient in the coupled building energy and CFD simulation. *Building and Environment*, **2004**, 39, 1001-1009	6.5	51
162	Assessment of various CFD models for predicting airflow and pressure drop through pleated filter system. *Building and Environment*, **2014**, 75, 132-141	6.5	49
161	Experimental study of gaseous and particulate contaminants distribution in an aircraft cabin. *Atmospheric Environment*, **2014**, 85, 223-233	5.3	47
160	Experimental and numerical analysis of heat transfer and airflow on an interactive building facade. *Energy and Buildings*, **2010**, 42, 23-28	7	47
159	A two-dimensional model for calculating heat transfer in the human body in a transient and non-uniform thermal environment. *Energy and Buildings*, **2016**, 118, 114-122	7	45

158	Evaluating the commercial airliner cabin environment with different air distribution systems. *Indoor Air*, **2019**, 29, 840-853	5.4	43
157	Simplified models for exhaled airflow from a cough with the mouth covered. *Indoor Air*, **2014**, 24, 580-91	5.4	43
156	Impact of Moving Objects onContaminant Concentration Distributions in an Inpatient Ward with Displacement Ventilation. *HVAC and R Research*, **2010**, 16, 545-563		43
155	Modelling dynamic thermal sensation of human subjects in outdoor environments. *Energy and Buildings*, **2017**, 149, 16-25	7	42
154	A comprehensive review of thermal comfort studies in urban open spaces. *Science of the Total Environment*, **2020**, 742, 140092	10.2	42
153	A simplified approach to describe complex diffusers in displacement ventilation for CFD simulations. *Indoor Air*, **2009**, 19, 255-67	5.4	42
152	Artificial neural network models using thermal sensations and occupants behavior for predicting thermal comfort. *Energy and Buildings*, **2018**, 174, 587-602	7	41
151	Control of Airborne Particle Concentration and Draught Risk in an Operating Room. *Indoor Air*, **1992**, 2, 154-167	5.4	41
150	Comparing the Markov Chain Model with the Eulerian and Lagrangian Models for Indoor Transient Particle Transport Simulations. *Aerosol Science and Technology*, **2015**, 49, 857-871	3.4	40
149	A computational method for calculating heat transfer and airflow through a dual-airflow window. *Energy and Buildings*, **2008**, 40, 452-458	7	40
148	Ozone reaction with clothing and its initiated particle generation in an environmental chamber. *Atmospheric Environment*, **2013**, 77, 885-892	5.3	37
147	Simulating Natural Ventilation in and Around Buildings by Fast Fluid Dynamics. *Numerical Heat Transfer; Part A: Applications*, **2013**, 64, 273-289	2.3	37
146	Measurements and predictions of the skin temperature of human subjects on outdoor environment. *Energy and Buildings*, **2017**, 151, 476-486	7	37
145	A hybrid model for investigating transient particle transport in enclosed environments. *Building and Environment*, **2013**, 62, 45-54	6.5	37
144	A Dual Airflow Window for Indoor Air Quality Improvement and Energy Conservation in Buildings. *HVAC and R Research*, **2008**, 14, 359-372		37
143	Validation of a Coupled Multizone-CFD Program for Building Airflow and Contaminant Transport Simulations. *HVAC and R Research*, **2007**, 13, 267-281		37
142	Experimental and numerical study of airflow distribution in an aircraft cabin mock-up with a gasper on. *Journal of Building Performance Simulation*, **2016**, 9, 555-566	2.8	35
141	Inverse design of the thermal environment in an airliner cabin by use of the CFD-based adjoint method. *Energy and Buildings*, **2015**, 104, 147-155	7	34

140	Energy performance of a dual airflow window under different climates. *Energy and Buildings*, **2010**, 42, 111-122	7	34
139	Inverse design methods for indoor ventilation systems using CFD-based multi-objective genetic algorithm. *Building Simulation*, **2014**, 7, 661-669	3.9	33
138	Simulations of ozone distributions in an aircraft cabin using computational fluid dynamics. *Atmospheric Environment*, **2012**, 54, 348-357	5.3	31
137	Distributions of respiratory contaminants from a patient with different postures and exhaling modes in a single-bed inpatient room. *Building and Environment*, **2011**, 46, 75-81	6.5	31
136	Influence of cabin conditions on placement and response of contaminant detection sensors in a commercial aircraft. *Journal of Environmental Monitoring*, **2008**, 10, 71-81		31
135	Coupling indoor airflow, HVAC, control and building envelope heat transfer in the Modelica Buildings library. *Journal of Building Performance Simulation*, **2016**, 9, 366-381	2.8	30
134	Development of a fast fluid dynamics-based adjoint method for the inverse design of indoor environments. *Journal of Building Performance Simulation*, **2017**, 10, 326-343	2.8	30
133	Improvements of Fast Fluid Dynamics for Simulating Air Flow in Buildings. *Numerical Heat Transfer, Part B: Fundamentals*, **2012**, 62, 419-438	1.3	29
132	Implementation of a fast fluid dynamics model in OpenFOAM for simulating indoor airflow. *Numerical Heat Transfer; Part A: Applications*, **2016**, 69, 748-762	2.3	28
131	Simulations of Air Distributions in Buildings by FFD on GPU. *HVAC and R Research*, **2010**, 16, 785-798		28
130	BSPro COM-Server: Interoperability between software tools using industrial foundation classes. *Energy and Buildings*, **2002**, 34, 901-907	7	28
129	Determination of particle deposition in enclosed spaces by Detached Eddy Simulation with the Lagrangian method. *Atmospheric Environment*, **2011**, 45, 5376-5384	5.3	27
128	Influence of air supply parameters on indoor air diffusion. *Building and Environment*, **1991**, 26, 417-431	6.5	27
127	Experimental investigation of thermal comfort in a passenger car under driving conditions. *Building and Environment*, **2019**, 149, 109-119	6.5	27
126	Investigating the impact of gaspers on cabin air quality in commercial airliners with a hybrid turbulence model. *Building and Environment*, **2017**, 111, 110-122	6.5	26
125	Mesh Type and Number for the CFD Simulations of Air Distribution in an Aircraft Cabin. *Numerical Heat Transfer, Part B: Fundamentals*, **2015**, 67, 489-506	1.3	26
124	Development of simple semiempirical models for calculating airflow through hopper, awning, and casement windows for single-sided natural ventilation. *Energy and Buildings*, **2015**, 96, 373-384	7	26
123	An innovative personalized displacement ventilation system for airliner cabins. *Building and Environment*, **2018**, 137, 41-50	6.5	26

122	A methodology for indoor airflow computations and energy analysis for a displacement ventilation system. *Energy and Buildings*, **1990**, 14, 259-271	7	26
121	A semi-empirical model for studying the impact of thermal mass and cost-return analysis on mixed-mode ventilation in office buildings. *Energy and Buildings*, **2013**, 67, 267-274	7	25
120	Optimal design for a dual-airflow window for different climate regions in China. *Energy and Buildings*, **2010**, 42, 2200-2205	7	24
119	Applications of a Coupled Multizone-CFD Model to Calculate Airflow and Contaminant Dispersion in Built Environments for Emergency Management. *HVAC and R Research*, **2008**, 14, 925-939		24
118	Energy analysis for workshops with floor supply displacement ventilation under the U.S. climates. *Energy and Buildings*, **2006**, 38, 1212-1219	7	24
117	Study of outdoor ozone penetration into buildings through ventilation and infiltration. *Building and Environment*, **2015**, 93, 112-118	6.5	23
116	State-of-the-art methods for inverse design of an enclosed environment. *Building and Environment*, **2015**, 91, 91-100	6.5	23
115	Simulating buoyancy-driven airflow in buildings by coarse-grid fast fluid dynamics. *Building and Environment*, **2015**, 85, 144-152	6.5	23
114	Numerical analysis of diffuse ceiling ventilation and its integration with a radiant ceiling system. *Building Simulation*, **2017**, 10, 203-218	3.9	23
113	Strategy for Studying Ventilation Performance in Factories. *Aerosol and Air Quality Research*, **2016**, 16, 442-452	4.6	23
112	Optimal air distribution design in enclosed spaces using an adjoint method. *Inverse Problems in Science and Engineering*, **2015**, 23, 760-779	1.3	22
111	Reduction of Numerical Diffusion in FFD Model. *Engineering Applications of Computational Fluid Mechanics*, **2012**, 6, 234-247	4.5	22
110	Optimization of air supply location, size, and parameters in enclosed environments using a computational fluid dynamics-based adjoint method. *Journal of Building Performance Simulation*, **2016**, 9, 149-161	2.8	21
109	Improvements in FFD Modeling by Using Different Numerical Schemes. *Numerical Heat Transfer, Part B: Fundamentals*, **2010**, 58, 1-16	1.3	21
108	Modeling particle deposition on the surfaces around a multi-slot diffuser. *Building and Environment*, **2016**, 107, 79-89	6.5	21
107	Air change rates in urban Chinese bedrooms. *Indoor Air*, **2019**, 29, 828-839	5.4	20
106	Simulating the impact of occupant behavior on energy use of HVAC systems by implementing a behavioral artificial neural network model. *Energy and Buildings*, **2019**, 198, 216-227	7	20
105	Accelerating the Lagrangian Method for Modeling Transient Particle Transport in Indoor Environments. *Aerosol Science and Technology*, **2015**, 49, 351-361	3.4	20

104	Experimental study of particle deposition in the environmental control systems of commercial airliners. *Building and Environment*, **2016**, 96, 62-71	6.5	20
103	Validation of CFD Simulations for Natural Ventilation. *International Journal of Ventilation*, **2004**, 2, 359-369	1	20
102	Numerical modeling of particle generation from ozone reactions with human-worn clothing in indoor environments. *Atmospheric Environment*, **2015**, 102, 145-155	5.3	19
101	Comparison of STAR-CCM+ and ANSYS Fluent for simulating indoor airflows. *Building Simulation*, **2018**, 11, 165-174	3.9	19
100	A model for calculating single-sided natural ventilation rate in an urban residential apartment. *Building and Environment*, **2019**, 147, 372-381	6.5	19
99	Development and validation of a smart HVAC control system for multi-occupant offices by using occupants' physiological signals from wristband. *Energy and Buildings*, **2020**, 214, 109872	7	19
98	In-flight monitoring of particle deposition in the environmental control systems of commercial airliners in China. *Atmospheric Environment*, **2017**, 154, 118-128	5.3	18
97	Modeling of gasper-induced jet flow and its impact on cabin air quality. *Energy and Buildings*, **2016**, 127, 700-713	7	18
96	Indoor airflow and contaminant transport in a room with coupled displacement ventilation and passive-chilled-beam systems. *Building and Environment*, **2019**, 161, 106244	6.5	18
95	A two-layer turbulence model for simulating indoor airflow: Part II. Applications. *Energy and Buildings*, **2001**, 33, 627-639	7	18
94	Reinforcement learning of occupant behavior model for cross-building transfer learning to various HVAC control systems. *Energy and Buildings*, **2021**, 238, 110860	7	18
93	Effective ventilation and air disinfection system for reducing coronavirus disease 2019 (COVID-19) infection risk in office buildings. *Sustainable Cities and Society*, **2021**, 75, 103408	10.1	18
92	On the turbulence models and turbulent Schmidt number in simulating stratified flows. *Journal of Building Performance Simulation*, **2016**, 9, 134-148	2.8	17
91	Optimal design of an indoor environment by the CFD-based adjoint method with area-constrained topology and cluster analysis. *Building and Environment*, **2018**, 138, 171-180	6.5	17
90	Comfort and energy consumption analysis in buildings with radiant panels. *Energy and Buildings*, **1990**, 14, 287-297	7	17
89	Improving indoor air quality and thermal comfort in residential kitchens with a new ventilation system. *Building and Environment*, **2020**, 180, 107016	6.5	16
88	A novel method for measuring air infiltration rate in buildings. *Energy and Buildings*, **2018**, 168, 309-318	7	16
87	Recognition of air-conditioner operation from indoor air temperature and relative humidity by a data mining approach. *Energy and Buildings*, **2016**, 111, 233-241	7	16

86	CFD simulations of natural cross ventilation through an apartment with modified hourly wind information from a meteorological station. *Energy and Buildings*, **2019**, 195, 16-25	7	15
85	Systematic study of person-to-person contaminant transport in mechanically ventilated spaces (RP-1458). *HVAC and R Research*, **2014**, 20, 80-91		15
84	Experimental study of ventilation performance in laboratories with chemical spills. *Building and Environment*, **2012**, 57, 327-335	6.5	15
83	On a Hybrid RANS/LES Approach for Indoor Airflow Modeling (RP-1271). *HVAC and R Research*, **2010**, 16, 731-747		15
82	A two-layer turbulence model for simulating indoor airflow. *Energy and Buildings*, **2001**, 33, 613-625	7	15
81	Comparison of Different Subgrid-Scale Models of Large Eddy Simulation for Indoor Airflow Modeling. *Journal of Fluids Engineering, Transactions of the ASME*, **2001**, 123, 628-639	2.1	15
80	Investigation of the Performance of Airliner Cabin Air Filters throughout Lifetime Usage. *Aerosol and Air Quality Research*, **2013**, 13, 1544-1551	4.6	15
79	Accelerating fast fluid dynamics with a coarse-grid projection scheme. *HVAC and R Research*, **2014**, 20, 932-943		14
78	Improvement of fast fluid dynamics with a conservative semi-Lagrangian scheme. *International Journal of Numerical Methods for Heat and Fluid Flow*, **2015**, 25, 2-18	4.5	13
77	An improved displacement ventilation system for a machining plant. *Atmospheric Environment*, **2020**, 228, 117419	5.3	13
76	Inverse design of an indoor environment using a CFD-based adjoint method with the adaptive step size for adjusting the design parameters. *Numerical Heat Transfer; Part A: Applications*, **2017**, 71, 707-720	2.3	12
75	A method to optimize sampling locations for measuring indoor air distributions. *Atmospheric Environment*, **2015**, 102, 355-365	5.3	12
74	Development of adaptive coarse grid generation methods for fast fluid dynamics in simulating indoor airflow. *Journal of Building Performance Simulation*, **2018**, 11, 470-484	2.8	12
73	Number sequence transition method based on MATLAB BVP solvers for high power Yb3+-doped fiber lasers. *Optics and Laser Technology*, **2014**, 58, 76-83	4.2	12
72	Voltage□current characteristics of needle-plate system with different media on the collection plate. *Journal of Electrostatics*, **2014**, 72, 129-135	1.7	12
71	Ventilation similarity of an aircraft cabin mockup with a real MD-82 commercial airliner. *Building and Environment*, **2017**, 111, 80-90	6.5	12
70	Computer modeling of multiscale fluid flow and heat and mass transfer in engineered spaces. *Chemical Engineering Science*, **2007**, 62, 3580-3588	4.4	12
69	Energy analysis of three ventilation systems for a large machining plant. *Energy and Buildings*, **2020**, 224, 110272	7	12

68	Inverse design of indoor environment using an adjoint RNG k-ε turbulence model. *Indoor Air*, **2019**, 29, 320-330	5.4	12
67	Can we migrate COVID-19 spreading risk?. *Frontiers of Environmental Science and Engineering*, **2021**, 15, 35	5.8	12
66	Predicting airflow distribution and contaminant transport in aircraft cabins with a simplified gasper model. *Journal of Building Performance Simulation*, **2016**, 9, 699-708	2.8	11
65	Prediction of particle deposition around the cabin air supply nozzles of commercial airplanes using measured in-cabin particle emission rates. *Indoor Air*, **2018**, 28, 852-865	5.4	11
64	Numerical modeling of volatile organic compound emissions from ozone reactions with human-worn clothing in an aircraft cabin. *HVAC and R Research*, **2014**, 20, 922-931		11
63	Associations of indoor carbon dioxide concentrations, air temperature, and humidity with perceived air quality and sick building syndrome symptoms in Chinese homes. *Indoor Air*, **2021**, 31, 1018-1028	5.4	11
62	An experimental method for contaminant dispersal characterization in large industrial buildings for indoor air quality (IAQ) applications. *Building and Environment*, **2002**, 37, 305-312	6.5	10
61	Evaluation of SARS-COV-2 transmission and infection in airliner cabins.. *Indoor Air*, **2022**,	5.4	10
60	Influencing factors in the simulation of airflow and particle transportation in aircraft cabins by CFD. *Building and Environment*, **2022**, 207, 108413	6.5	10
59	Evaluation of intervention measures for respiratory disease transmission on cruise ships. *Indoor and Built Environment*, **2016**, 25, 1267-1278	1.8	9
58	Inverse Design Methods for the Built Environment		9
57	Indoor thermal environment and air quality in Chinese-style residential kitchens. *Indoor Air*, **2020**, 30, 198-212	5.4	9
56	Numerical modeling of particle deposition in the environmental control systems of commercial airliners on ground. *Building Simulation*, **2017**, 10, 265-275	3.9	8
55	Field study of infiltration rate and its influence on indoor air quality in an apartment. *Procedia Engineering*, **2017**, 205, 3954-3961		8
54	Modeling of the Impact of different Window Types on Single-sided Natural Ventilation. *Energy Procedia*, **2015**, 78, 1549-1555	2.3	8
53	Influence of floor plenum on energy performance of buildings with UFAD systems. *Energy and Buildings*, **2014**, 79, 74-83	7	8
52	Airflow and Air Quality in a Large Enclosure. *Journal of Solar Energy Engineering, Transactions of the ASME*, **1995**, 117, 114-122	2.3	8
51	Evaluation of airborne particle exposure for riding elevators. *Building and Environment*, **2022**, 207, 108543	6.5	8

50	Carbon dioxide in passenger cabins: Spatial temporal characteristics and 30-year trends. *Indoor Air*, **2021**, 31, 2200-2212	5.4	8
49	Evaluation of different air distribution systems for sleeping spaces in transport vehicles. *Building and Environment*, **2015**, 94, 665-675	6.5	7
48	A modified tracer-gas decay model for ventilation rate measurements in long and narrow spaces. *Indoor and Built Environment*, **2014**, 23, 1012-1020	1.8	7
47	Multi-objective optimization of building design for life cycle cost and CO2 emissions: A case study of a low-energy residential building in a severe cold climate. *Building Simulation*, **2022**, 15, 83-98	3.9	7
46	Excellent initial guess functions for simple shooting method in Yb3+-doped fiber lasers. *Optical Fiber Technology*, **2014**, 20, 358-364	2.4	6
45	Current studies on air distributions in commercial airliner cabins. *Theoretical and Applied Mechanics Letters*, **2013**, 3, 062001	1.8	6
44	Performance evaluation and design guide for a coupled displacement-ventilation and passive-chilled-beam system. *Energy and Buildings*, **2020**, 208, 109654	7	6
43	Inverse design of an indoor environment using a filter-based topology method with experimental verification. *Indoor Air*, **2020**, 30, 1039-1051	5.4	5
42	Thermal sensation model for driver in a passenger car with changing solar radiation. *Building and Environment*, **2020**, 183, 107219	6.5	5
41	Experimental and computational investigation of wall-mounted displacement induction ventilation system. *Energy and Buildings*, **2021**, 241, 110937	7	5
40	Modeling dynamic responses of aircraft environmental control systems by coupling with cabin thermal environment simulations. *Building Simulation*, **2016**, 9, 459-468	3.9	5
39	A method of assessing the energy cost saving from using an effective door closer. *Energy and Buildings*, **2016**, 118, 329-338	7	4
38	Evaluation of different air distribution systems in a commercial airliner cabin in terms of comfort and COVID-19 infection risk. *Building and Environment*, **2021**, 208, 108590	6.5	4
37	Identification of key volatile organic compounds in aircraft cabins and associated inhalation health risks.. *Environment International*, **2022**, 158, 106999	12.9	4
36	Development of a novel method to detect clothing level and facial skin temperature for controlling HVAC systems. *Energy and Buildings*, **2021**, 239, 110859	7	4
35	Impact of occupant behavior on energy use of HVAC system in offices. *E3S Web of Conferences*, **2019**, 111, 04055	0.5	3
34	Adaptive shooting method for 4-point side-pumping high power Yb3+-doped double-clad fiber lasers. *Optical Fiber Technology*, **2015**, 22, 13-22	2.4	3
33	A simple error control strategy using MATLAB BVP solvers for Yb3+-doped fiber lasers. *Optik*, **2015**, 126, 3446-3451	2.5	3

32	A coupled computational fluid dynamics and analytical model to simulate airborne contaminant transmission in cabins. *Indoor and Built Environment*, **2014**, 23, 946-954	1.8	3
31	Condensation Risk in a Room with a High Latent Load and Chilled Ceiling Panels and with Air Supplied from a Liquid Desiccant System. *HVAC and R Research*, **2009**, 15, 315-327		3
30	Comparison of different decontaminant delivery methods for sterilizing unoccupied commercial airliner cabins. *Building and Environment*, **2010**, 45, 2027-2034	6.5	3
29	A Simple Interface to Computational Fluid Dynamics Programs for Building Environment Simulations. *Indoor and Built Environment*, **2000**, 9, 317-324	1.8	3
28	Evaluation of fast fluid dynamics with different turbulence models for predicting outdoor airflow and pollutant dispersion. *Sustainable Cities and Society*, **2021**, 103583	10.1	3
27	What is suitable social distancing for people wearing face masks during the COVID-19 pandemic?. *Indoor Air*, **2021**,	5.4	3
26	Influencing factors of carbonyl compounds and other VOCs in commercial airliner cabins: On-board investigation of 56 flights. *Indoor Air*, **2021**, 31, 2084-2098	5.4	3
25	Inverse design of aircraft cabin ventilation by integrating three methods. *Building and Environment*, **2019**, 150, 33-43	6.5	3
24	Optimization of multi-V filter design for airliner environmental control system using an empirical model. *Separation and Purification Technology*, **2021**, 257, 117966	8.3	3
23	Inverse design of the thermal environment in an airplane cockpit using the adjoint method with the momentum method. *Indoor Air*, **2021**, 31, 1614-1624	5.4	3
22	Shooting method with excellent initial guess functions for multipoint pumping Yb3+-doped fiber lasers. *Optics Communications*, **2015**, 336, 286-294	2	2
21	Particle capture by a rotating disk in a kitchen exhaust hood. *Aerosol Science and Technology*, **2020**, 54, 929-940	3.4	2
20	Case Study of Industrial-Building Energy Performance in a Cold-Climate Region in a Developing Country. *Journal of Performance of Constructed Facilities*, **2016**, 30, 04015001	2	2
19	Evaluation of Four Models for Predicting Thermal Sensation in Chinese Residential Kitchen. *E3S Web of Conferences*, **2019**, 111, 02004	0.5	2
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