

# Jianlei Niu

## List of Publications by Year in descending order

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180  
papers

9,746  
citations

25034

57  
h-index

46799

89  
g-index

186  
all docs

186  
docs citations

186  
times ranked

5384  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transient tracer gas measurements: Development and evaluation of a fast response SF <sub>6</sub> measuring system based on quartz-enhanced photoacoustic spectroscopy. Indoor Air, 2022, 32, .	4.3	4
2	Dynamic effects of frequent step changes in outdoor microclimate environments on thermal sensation and dissatisfaction of pedestrian during summer. Sustainable Cities and Society, 2022, 79, 103670.	10.4	15
3	Simulation and Formation Mechanisms of Urban Landscape Design Based on Discrete Dynamic Models Driven by Big Data. Discrete Dynamics in Nature and Society, 2022, 2022, 1-9.	0.9	4
4	Cooling storage performance of a novel phase change material nano-emulsion for room air-conditioning in a self-designed pilot thermal storage unit. Applied Energy, 2022, 308, 118405.	10.1	15
5	Towards idealized thermal stratification in a novel phase change emulsion storage tank. Applied Energy, 2022, 310, 118526.	10.1	8
6	Spread of SARS-CoV-2 aerosols via two connected drainage stacks in a high-rise housing outbreak of COVID-19. Journal of Hazardous Materials, 2022, 430, 128475.	12.4	18
7	Enhancing the cooling capacity of radiant ceiling panels by latent heat transfer of superhydrophobic surfaces. Energy and Buildings, 2022, 263, 112036.	6.7	9
8	Phase change material thermal energy storage design of packed bed units. Journal of Energy Storage, 2022, 51, 104576.	8.1	9
9	Preparation of Stable Phase Change Material Emulsions for Thermal Energy Storage and Thermal Management Applications: A Review. Materials, 2022, 15, 121.	2.9	7
10	Quality Analysis on Indoor Thermal Comfort and Energy-Saving Improvement Strategy of Slate Dwellings, China. Buildings, 2022, 12, 468.	3.1	3
11	Probable cross-corridor transmission of SARS-CoV-2 due to cross airflows and its control. Building and Environment, 2022, 218, 109137.	6.9	11
12	Fast fluid dynamics simulation of airflow around a single bluff body under different turbulence models and discretization schemes. Building and Environment, 2022, 219, 109235.	6.9	5
13	Boundary layer wind tunnel tests of outdoor airflow field around urban buildings: A review of methods and status. Renewable and Sustainable Energy Reviews, 2022, 167, 112717.	16.4	21
14	Recent advances in modeling turbulent wind flow at pedestrian-level in the built environment. , 2022, 1, .		10
15	Numerical study on natural ventilation of the wind tower: Effects of combining with different window configurations in a low-rise house. Building and Environment, 2021, 188, 107450.	6.9	27
16	Evaluation and manipulation of the key emulsification factors toward highly stable PCM-water nano-emulsions for thermal energy storage. Solar Energy Materials and Solar Cells, 2021, 219, 110820.	6.2	25
17	Formulation of highly stable PCM nano-emulsions with reduced supercooling for thermal energy storage using surfactant mixtures. Solar Energy Materials and Solar Cells, 2021, 223, 110983.	6.2	29
18	Enlightenment of re-entry airflow: The path of the airflow and the airborne pollutants transmission in buildings. Building and Environment, 2021, 195, 107760.	6.9	5

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19	Field measurement of the urban pedestrian level wind turbulence. Building and Environment, 2021, 194, 107713.	6.9	31
20	Dynamic thermal pleasure in outdoor environments - temporal alliesthesia. Science of the Total Environment, 2021, 771, 144910.	8.0	29
21	Evaluation of the energy storage performance of PCM nano-emulsion in a small tubular heat exchanger. Case Studies in Thermal Engineering, 2021, 26, 101156.	5.7	14
22	Impact of wind turbulence on thermal perception in the urban microclimate. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 216, 104714.	3.9	7
23	Numerical study on the effect of diner divider on the airborne transmission of diseases in canteens. Energy and Buildings, 2021, 248, 111171.	6.7	33
24	An experimental study of condensation on an aluminum radiant ceiling panel surface with superhydrophobic treatment. Energy and Buildings, 2021, 252, 111393.	6.7	13
25	Quality Analysis on Spatial Planning Pattern of Rural Area in Southern Shaanxi, China. Sustainability, 2021, 13, 12668.	3.2	4
26	Exploration of applicability of UTCI and thermally comfortable sun and wind conditions outdoors in a subtropical city of Hong Kong. Sustainable Cities and Society, 2020, 52, 101793.	10.4	31
27	Experimental study on convective heat transfer coefficients for the human body exposed to turbulent wind conditions. Building and Environment, 2020, 169, 106533.	6.9	42
28	From thermal sensation to thermal affect: A multi-dimensional semantic space to assess outdoor thermal comfort. Building and Environment, 2020, 182, 107112.	6.9	20
29	The Impacts of a Building's Thermal Mass on the Cooling Load of a Radiant System under Various Typical Climates. Energies, 2020, 13, 1356.	3.1	16
30	Experimental study of storage capacity and discharging rate of latent heat thermal energy storage units. Applied Energy, 2020, 275, 115325.	10.1	13
31	Tracer gas is a suitable surrogate of exhaled droplet nuclei for studying airborne transmission in the built environment. Building Simulation, 2020, 13, 489-496.	5.6	103
32	Assessment of "lift-up" design's impact on thermal perceptions in the transition process from indoor to outdoor. Sustainable Cities and Society, 2020, 56, 102081.	10.4	17
33	CFD simulation of the drag effect of urban trees: Source term modification method revisited at the tree scale. Sustainable Cities and Society, 2020, 56, 102079.	10.4	23
34	Development of a multi-nodal thermal regulation and comfort model for the outdoor environment assessment. Building and Environment, 2020, 176, 106809.	6.9	26
35	Performance optimization for shell-and-tube PCM thermal energy storage. Journal of Energy Storage, 2020, 30, 101421.	8.1	44
36	Pedestrian-level wind and gust around buildings with a "lift-up" design: Assessment of influence from surrounding buildings by adopting LES. Building Simulation, 2019, 12, 1107-1118.	5.6	35

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37	Preliminary Evaluation in Terms of Building Group Layout Design Based on Simulated Local Wind and Daylight Conditions: A Case Study in Qinghai, China. <i>Energy Procedia</i> , 2019, 159, 201-206.	1.8	4
38	Experimental investigations for applying PESS to disaster relief PTHs. <i>Energy Procedia</i> , 2019, 158, 4772-4777.	1.8	1
39	Experimental analysis of driving forces and impact factors of horizontal inter-unit airborne dispersion in a residential building. <i>Building and Environment</i> , 2019, 151, 88-96.	6.9	8
40	Development and characterization of novel and stable silicon nanoparticles-embedded PCM-in-water emulsions for thermal energy storage. <i>Applied Energy</i> , 2019, 238, 1407-1416.	10.1	57
41	A numerical study on optimizing the designs of applying PCMs to a disaster-relief prefabricated temporary-house (PTH) to improve its summer daytime indoor thermal environment. <i>Energy</i> , 2019, 181, 239-249.	8.8	24
42	Outdoor thermal sensation and logistic regression analysis of comfort range of meteorological parameters in Hong Kong. <i>Building and Environment</i> , 2019, 155, 175-186.	6.9	41
43	Fanning as an alternative to air conditioning – A sustainable solution for reducing indoor occupational heat stress. <i>Energy and Buildings</i> , 2019, 193, 92-98.	6.7	32
44	Vibration Effect Produced by Raised Pavement Markers on the Exit Ramp of an Expressway. <i>Journal of Advanced Transportation</i> , 2019, 2019, 1-12.	1.7	1
45	Delayed detached eddy simulation of pedestrian-level wind around a building array – The potential to save computing resources. <i>Building and Environment</i> , 2019, 152, 28-38.	6.9	30
46	An analytical technique for the optimal designs of tube-in-tank thermal energy storage systems using PCM. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 849-859.	4.8	16
47	LES for pedestrian level wind around an idealized building array – Assessment of sensitivity to influencing parameters. <i>Sustainable Cities and Society</i> , 2019, 44, 406-415.	10.4	59
48	Investigation into the differences among several outdoor thermal comfort indices against field survey in subtropics. <i>Sustainable Cities and Society</i> , 2019, 44, 676-690.	10.4	142
49	Evaluation of a multi-nodal thermal regulation model for assessment of outdoor thermal comfort: Sensitivity to wind speed and solar radiation. <i>Building and Environment</i> , 2018, 132, 45-56.	6.9	67
50	Air infiltration induced inter-unit dispersion and infectious risk assessment in a high-rise residential building. <i>Building Simulation</i> , 2018, 11, 193-202.	5.6	15
51	Numerical analysis for maximizing effective energy storage capacity of thermal energy storage systems by enhancing heat transfer in PCM. <i>Energy and Buildings</i> , 2018, 160, 10-18.	6.7	48
52	An experimental study on applying PCMs to disaster-relief prefabricated temporary houses for improving internal thermal environment in summer. <i>Energy and Buildings</i> , 2018, 179, 301-310.	6.7	29
53	Assessment of outdoor thermal comfort in Hong Kong based on the individual desirability and acceptability of sun and wind conditions. <i>Building and Environment</i> , 2018, 145, 50-61.	6.9	51
54	Pedestrian-level wind conditions in the space underneath lift-up buildings. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2018, 179, 58-69.	3.9	33

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55	Effects of building lift-up design on the wind environment for pedestrians. Indoor and Built Environment, 2017, 26, 1214-1231.	2.8	26
56	Adopting “lift-up” building design to improve the surrounding pedestrian-level wind environment. Building and Environment, 2017, 117, 154-165.	6.9	61
57	Numerical study of inter-building dispersion in residential environments: Prediction methods evaluation and infectious risk assessment. Building and Environment, 2017, 115, 199-214.	6.9	20
58	Effects of lift-up design on pedestrian level wind comfort in different building configurations under three wind directions. Building and Environment, 2017, 117, 84-99.	6.9	101
59	New criteria for assessing low wind environment at pedestrian level in Hong Kong. Building and Environment, 2017, 123, 23-36.	6.9	90
60	Detached eddy simulation of pedestrian-level wind and gust around an elevated building. Building and Environment, 2017, 125, 168-179.	6.9	59
61	Simultaneous environmental parameter monitoring and human subject survey regarding outdoor thermal comfort and its modelling. Building and Environment, 2017, 125, 502-514.	6.9	105
62	Towards an integrated method to assess effects of lift-up design on outdoor thermal comfort in Hong Kong. Building and Environment, 2017, 125, 261-272.	6.9	34
63	Operation dynamics of building with radiant cooling system based on Beijing weather. Energy and Buildings, 2017, 151, 344-357.	6.7	22
64	Evaluation of pedestrian wind comfort near “lift-up” buildings with different aspect ratios and central core modifications. Building and Environment, 2017, 124, 245-257.	6.9	58
65	Assessment on Seasonal Variations of Outdoor Thermal Comfort with On-site Monitoring in a Precinct. Procedia Engineering, 2017, 198, 321-331.	1.2	2
66	Pedestrian Level Turbulent Wind Flow around an Elevated Building. Procedia Engineering, 2017, 205, 1004-1010.	1.2	3
67	On-site evaluation of pedestrian-level air quality at a U-type street canyon in an ancient city. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 168, 322-333.	3.9	9
68	Optimizing LHS system using PCM in a tube-in-tank design for emergency cooling. Energy Procedia, 2017, 142, 3381-3387.	1.8	14
69	Comparisons of Respondent Thermal Perceptions in Underneath-elevated-building (UEB) Areas and Direct-radiated (DR) Areas. Procedia Engineering, 2017, 205, 4165-4171.	1.2	0
70	Assessment of mechanical exhaust in preventing vertical cross-household infections associated with single-sided ventilation. Building and Environment, 2016, 105, 307-316.	6.9	21
71	Two performance indices of TES apparatus: Comparison of MPCM slurry vs. stratified water storage tank. Energy and Buildings, 2016, 127, 512-520.	6.7	24
72	A review of the advance of HVAC technologies as witnessed in ENB publications in the period from 1987 to 2014. Energy and Buildings, 2016, 130, 33-45.	6.7	37

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73	Combining measured thermal parameters and simulated wind velocity to predict outdoor thermal comfort. <i>Building and Environment</i> , 2016, 105, 185-197.	6.9	59
74	PCM-in-water emulsion for solar thermal applications: The effects of emulsifiers and emulsification conditions on thermal performance, stability and rheology characteristics. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 211-224.	6.2	76
75	On-site measurement of tracer gas transmission between horizontal adjacent flats in residential building and cross-infection risk assessment. <i>Building and Environment</i> , 2016, 99, 13-21.	6.9	36
76	CFD simulation of the wind environment around an isolated high-rise building: An evaluation of SRANS, LES and DES models. <i>Building and Environment</i> , 2016, 96, 91-106.	6.9	169
77	Optimal building envelope design based on simulated performance: History, current status and new potentials. <i>Energy and Buildings</i> , 2016, 117, 387-398.	6.7	85
78	Characteristics of air pollutant dispersion around a high-rise building. <i>Environmental Pollution</i> , 2015, 204, 280-288.	7.5	51
79	A new method to assess spatial variations of outdoor thermal comfort: Onsite monitoring results and implications for precinct planning. <i>Building and Environment</i> , 2015, 91, 263-270.	6.9	148
80	Application of super-insulating translucent silica aerogel glazing system on commercial building envelope of humid subtropical climates – Impact on space cooling load. <i>Energy</i> , 2015, 83, 316-325.	8.8	83
81	Conjugate heat and mass transfer in a total heat exchanger with cross-corrugated triangular ducts and one-step made asymmetric membranes. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 390-400.	4.8	35
82	Effects of geometrical parameters on the thermohydraulic characteristics of periodic cross-corrugated channels. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 542-549.	4.8	32
83	Investigation on the thermal comfort and energy efficiency of stratified air distribution systems. <i>Energy for Sustainable Development</i> , 2015, 28, 1-9.	4.5	21
84	Energy and visual performance of the silica aerogel glazing system in commercial buildings of Hong Kong. <i>Construction and Building Materials</i> , 2015, 94, 57-72.	7.2	69
85	PCM in Water Emulsions: Supercooling Reduction Effects of Nano-Additives, Viscosity Effects of Surfactants and Stability. <i>Advanced Engineering Materials</i> , 2015, 17, 181-188.	3.5	45
86	Constructal design of latent thermal energy storage with vertical spiral heaters. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 283-288.	4.8	50
87	Effect of balconies and upper-lower vents on ventilation and indoor air quality in a wind-induced, naturally ventilated building. <i>Building Services Engineering Research and Technology</i> , 2014, 35, 393-407.	1.8	21
88	Dispersion of air pollutants around buildings: A review of past studies and their methodologies. <i>Indoor and Built Environment</i> , 2014, 23, 201-224.	2.8	22
89	Phase change heat storage in an enclosure with vertical pipe in the center. <i>International Journal of Heat and Mass Transfer</i> , 2014, 72, 329-335.	4.8	52
90	Swirling-strength based large eddy simulation of turbulent flow around single square cylinder at low Reynolds numbers. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2014, 35, 959-978.	3.6	10

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91	Comprehensive analysis on thermal and daylighting performance of glazing and shading designs on office building envelope in cooling-dominant climates. <i>Applied Energy</i> , 2014, 134, 215-228.	10.1	109
92	An optimal design analysis method for heat recovery devices in building applications. <i>Applied Energy</i> , 2014, 129, 364-372.	10.1	21
93	The Study on Paraffin-Water Emulsion PCM with Low Supercooling Degree. <i>Lecture Notes in Electrical Engineering</i> , 2014, , 19-26.	0.4	2
94	Evaluation of RANS turbulence models for simulating wind-induced mean pressures and dispersions around a complex-shaped high-rise building. <i>Building Simulation</i> , 2013, 6, 151-164.	5.6	31
95	Numerical investigation of wind-induced airflow and interunit dispersion characteristics in multistory residential buildings. <i>Indoor Air</i> , 2013, 23, 417-429.	4.3	80
96	Experimental and numerical investigations on stratified air distribution systems with special configuration: Thermal comfort and energy saving. <i>Energy and Buildings</i> , 2013, 64, 154-161.	6.7	56
97	Study on performance of energy-efficient retrofitting measures on commercial building external walls in cooling-dominant cities. <i>Applied Energy</i> , 2013, 103, 97-108.	10.1	101
98	Co-occupant's exposure to exhaled pollutants with two types of personalized ventilation strategies under mixing and displacement ventilation systems. <i>Indoor Air</i> , 2013, 23, 162-171.	4.3	54
99	Cooling performance of nocturnal radiative cooling combined with microencapsulated phase change material (MPCM) slurry storage. <i>Energy and Buildings</i> , 2012, 54, 122-130.	6.7	99
100	Stratified air distribution systems in a large lecture theatre: A numerical method to optimize thermal comfort and maximize energy saving. <i>Energy and Buildings</i> , 2012, 55, 515-525.	6.7	72
101	A review of the application of radiant cooling & heating systems in Mainland China. <i>Energy and Buildings</i> , 2012, 52, 11-19.	6.7	132
102	Characteristics of physical blocking on co-occupant's exposure to respiratory droplet residuals. <i>Journal of Central South University</i> , 2012, 19, 645-650.	3.0	7
103	Numerical study of the lock-up phenomenon of human exhaled droplets under a displacement ventilated room. <i>Building Simulation</i> , 2012, 5, 51-60.	5.6	34
104	Thermal comfort models: A review and numerical investigation. <i>Building and Environment</i> , 2012, 47, 13-22.	6.9	186
105	Using RANS turbulence models and Lagrangian approach to predict particle deposition in turbulent channel flows. <i>Building and Environment</i> , 2012, 48, 206-214.	6.9	72
106	Energy and carbon emission payback analysis for energy-efficient retrofitting in buildings's Overhang shading option. <i>Energy and Buildings</i> , 2012, 44, 94-103.	6.7	74
107	Effective dispersion of multi-wall carbon nano-tubes in hexadecane through physiochemical modification and decrease of supercooling. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 124-130.	6.2	80
108	Two Stages Exposure of Co-Occupants to Respiratory Events Indoors: Numerical Results. , 2012, , .		0



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109	Analysis of concentration fluctuations in gas dispersion around high-rise building for different incident wind directions. Journal of Hazardous Materials, 2011, 192, 1623-1632.	12.4	25
110	Local characteristics of cross-unit contamination around high-rise building due to wind effect: Mean concentration and infection risk assessment. Journal of Hazardous Materials, 2011, 192, 160-7.	12.4	22
111	Numerical evaluation of louver configuration and ventilation strategies for the windcatcher system. Building and Environment, 2011, 46, 1600-1616.	6.9	54
112	CFD study of exhaled droplet transmission between occupants under different ventilation strategies in a typical office room. Building and Environment, 2011, 46, 397-408.	6.9	143
113	The assessment of the performance of balconies using computational fluid dynamics. Building Services Engineering Research and Technology, 2011, 32, 229-243.	1.8	29
114	The Effect of Balconies on Ventilation Performance of Low-rise Buildings. Indoor and Built Environment, 2011, 20, 649-660.	2.8	35
115	Effect of balconies on thermal comfort in wind-induced, naturally ventilated low-rise buildings. Building Services Engineering Research and Technology, 2011, 32, 277-292.	1.8	19
116	Spatial distribution of human respiratory droplet residuals and exposure risk for the co-occupant under different ventilation methods. HVAC and R Research, 2011, 17, 432-445.	0.6	30
117	CFD Simulation of Spread Risks of Infectious Disease due to Interactive Wind and Ventilation Airflows via Window Openings in High-Rise Buildings. , 2010, 1233, 169-174.		2
118	Experimental investigation of effects of supercooling on microencapsulated phase-change material (MPCM) slurry thermal storage capacities. Solar Energy Materials and Solar Cells, 2010, 94, 1038-1048.	6.2	54
119	Investigation of indoor air pollutant dispersion and cross-contamination around a typical high-rise residential building: Wind tunnel tests. Building and Environment, 2010, 45, 1769-1778.	6.9	64
120	Performance of cooled-ceiling operating with MPCM slurry. Energy Conversion and Management, 2009, 50, 583-591.	9.2	81
121	Impact of human motion on TVOCs inhalation dose under side re-circulated ventilation. Central South University, 2009, 16, 599-607.	0.5	1
122	Heat transfer characteristics of microencapsulated phase change material slurry in laminar flow under constant heat flux. Applied Energy, 2009, 86, 2661-2670.	10.1	110
123	The airborne transmission of infection between flats in high-rise residential buildings: Particle simulation. Building and Environment, 2009, 44, 402-410.	6.9	76
124	The Impact of Supercooling on the Effective Cooling Storage Capacity of Phase-Change Materials in Natural Cooling Application. , 2009, , .		0
125	On-site quantification of re-entry ratio of ventilation exhausts in multi-family residential buildings and implications. Indoor Air, 2008, 18, 12-26.	4.3	82
126	Distribution of respiratory droplets in enclosed environments under different air distribution methods. Building Simulation, 2008, 1, 326-335.	5.6	78



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127	Heat transfer of microencapsulated PCM slurry flow in a circular tube. AICHE Journal, 2008, 54, 1110-1120.	3.6	87
128	The airborne transmission of infection between flats in high-rise residential buildings: Tracer gas simulation. Building and Environment, 2008, 43, 1805-1817.	6.9	143
129	An experimental study of convective heat transfer with microencapsulated phase change material suspension: Laminar flow in a circular tube under constant heat flux. Experimental Thermal and Fluid Science, 2008, 32, 1638-1646.	2.7	203
130	Raising evaporative cooling potentials using combined cooled ceiling and MPCM slurry storage. Energy and Buildings, 2008, 40, 1691-1698.	6.7	74
131	Numerical simulation of inter-flat air cross-contamination under the condition of single-sided natural ventilation. Journal of Building Performance Simulation, 2008, 1, 133-147.	2.0	33
132	Personalized Ventilation for Commercial Aircraft Cabins. Journal of Aircraft, 2008, 45, 508-512.	2.4	53
133	Investigating Indoor Air Quality and Thermal Comfort Using a Numerical Thermal Manikin. Indoor and Built Environment, 2007, 16, 7-17.	2.8	61
134	Personalized Ventilation for Commercial Aircraft Cabins. , 2007, , .		2
135	Experimental study on a chair-based personalized ventilation system. Building and Environment, 2007, 42, 913-925.	6.9	95
136	Flow and heat transfer behaviors of phase change material slurries in a horizontal circular tube. International Journal of Heat and Mass Transfer, 2007, 50, 2480-2491.	4.8	139
137	A numerical simulation of wing walls using computational fluid dynamics. Energy and Buildings, 2007, 39, 995-1002.	6.7	64
138	Role of ventilation in airborne transmission of infectious agents in the built environment ? a multidisciplinary systematic review. Indoor Air, 2007, 17, 2-18.	4.3	822
139	Control of volatile organic compounds indoors”Development of an integrated mass-transfer-based model and its application. Atmospheric Environment, 2007, 41, 2344-2354.	4.1	30
140	Modeling particle dispersion and deposition in indoor environments. Atmospheric Environment, 2007, 41, 3862-3876.	4.1	219
141	Numerical Simulation of Heat and Moisture Transfer in Porous Walls with Microencapsulated PCM. Studies in Computational Intelligence, 2007, , 255-263.	0.9	0
142	Numerical procedure for predicting annual energy consumption of the under-floor air distribution system. Energy and Buildings, 2006, 38, 641-647.	6.7	48
143	Transient CFD simulation of the respiration process and inter-person exposure assessment. Building and Environment, 2006, 41, 1214-1222.	6.9	131
144	Determining diffusion and partition coefficients of VOCs in cement using one FLEC. Building and Environment, 2006, 41, 1148-1160.	6.9	17

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145	A physically-based model for prediction of VOCs emissions from paint applied to an absorptive substrate. <i>Building and Environment</i> , 2006, 41, 1317-1325.	6.9	42
146	Numerical study of three-dimensional flows around two identical square cylinders in staggered arrangements. <i>Physics of Fluids</i> , 2006, 18, 044106.	4.0	23
147	Coupling CFD and Human Body Thermoregulation Model for the Assessment of Personalized Ventilation. <i>HVAC and R Research</i> , 2006, 12, 497-518.	0.6	44
148	Numerical Study of Convective Heat Transfer from Two Identical Square Cylinders Submerged in a Uniform Cross Flow. <i>Numerical Heat Transfer; Part A: Applications</i> , 2006, 50, 21-44.	2.1	14
149	Methodology for determination of radon-222 production rate of residential building and experimental verification. <i>Radiation Measurements</i> , 2005, 40, 110-117.	1.4	6
150	An inverse approach for estimating the initial distribution of volatile organic compounds in dry building material. <i>Atmospheric Environment</i> , 2005, 39, 1447-1455.	4.1	25
151	An inverse technique to determine volatile organic compounds diffusion and partition coefficients in dry building material. <i>Heat and Mass Transfer</i> , 2005, 41, 834-842.	2.1	13
152	Simultaneous estimation of VOCs diffusion and partition coefficients in building materials via inverse analysis. <i>Building and Environment</i> , 2005, 40, 1366-1374.	6.9	38
153	Modeling the Performance of Personalized Ventilation under Different Conditions of Room Air and Personalized Air. <i>HVAC and R Research</i> , 2005, 11, 587-602.	0.6	16
154	Determination of Ozone Emission from a Domestic Air Cleaner and Decay Parameters using Environmental Chamber Tests. <i>Indoor and Built Environment</i> , 2005, 14, 29-37.	2.8	26
155	CFD Study of the Thermal Environment around a Human Body: A Review. <i>Indoor and Built Environment</i> , 2005, 14, 5-16.	2.8	113
156	NUMERICAL SIMULATION AND EXPERIMENTAL VALIDATION OF THE SWIRLING TURBULENT AIR FLOW AND MIXING PROCESSES. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004, 46, 571-586.	2.1	11
157	Moisture Generation through Chinese Household Activities. <i>Indoor and Built Environment</i> , 2004, 13, 115-131.	2.8	25
158	Some significant environmental issues in high-rise residential building design in urban areas. <i>Energy and Buildings</i> , 2004, 36, 1259-1263.	6.7	76
159	Determination of water vapor diffusion and partition coefficients in cement using one FLEC. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 2061-2072.	4.8	20
160	Modeling VOCs emissions in a room with a single-zone multi-component multi-layer technique. <i>Building and Environment</i> , 2004, 39, 523-531.	6.9	71
161	CFD study on micro-environment around human body and personalized ventilation. <i>Building and Environment</i> , 2004, 39, 795-805.	6.9	151
162	NUMERICAL EVALUATION OF WEAKLY TURBULENT FLOW PATTERNS OF NATURAL CONVECTION IN A SQUARE ENCLOSURE WITH DIFFERENTIALLY HEATED SIDE WALLS. <i>Numerical Heat Transfer; Part A: Applications</i> , 2004, 45, 551-568.	2.1	19

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163	Laminar fluid flow and mass transfer in a standard field and laboratory emission cell. International Journal of Heat and Mass Transfer, 2003, 46, 91-100.	4.8	47
164	Mass transfer of volatile organic compounds from painting material in a standard field and laboratory emission cell. International Journal of Heat and Mass Transfer, 2003, 46, 2415-2423.	4.8	34
165	Indoor humidity behaviors associated with decoupled cooling in hot and humid climates. Building and Environment, 2003, 38, 99-107.	6.9	131
166	Effects of substrate parameters on the emissions of volatile organic compounds from wet coating materials. Building and Environment, 2003, 38, 939-946.	6.9	32
167	A pre-cooling Munters environmental control desiccant cooling cycle in combination with chilled-ceiling panels. Energy, 2003, 28, 275-292.	8.8	45
168	Effectiveness Correlations for Heat and Moisture Transfer Processes in an Enthalpy Exchanger With Membrane Cores. Journal of Heat Transfer, 2002, 124, 922-929.	2.1	114
169	Forecasting Residential Energy Demand in China: An approach to technology impacts. Journal of Asian Architecture and Building Engineering, 2002, 1, 95-103.	2.0	1
170	Performance comparisons of desiccant wheels for air dehumidification and enthalpy recovery. Applied Thermal Engineering, 2002, 22, 1347-1367.	6.0	223
171	Energy savings potential of chilled-ceiling combined with desiccant cooling in hot and humid climates. Energy and Buildings, 2002, 34, 487-495.	6.7	223
172	Effects of wall thickness on the heat and moisture transfers in desiccant wheels for air dehumidification and enthalpy recovery. International Communications in Heat and Mass Transfer, 2002, 29, 255-268.	5.6	84
173	Heat transfer and friction coefficients in corrugated ducts confined by sinusoidal and arc curves. International Journal of Heat and Mass Transfer, 2002, 45, 571-578.	4.8	60
174	Setting up the criteria and credit-awarding scheme for building interior material selection to achieve better indoor air quality. Environment International, 2001, 26, 573-580.	10.0	24
175	Energy requirements for conditioning fresh air and the long-term savings with a membrane-based energy recovery ventilator in Hong Kong. Energy, 2001, 26, 119-135.	8.8	123
176	Quantification of dust removal and ozone emission of ionizer air-cleaners by chamber testing. Journal of Electrostatics, 2001, 51-52, 20-24.	1.9	45
177	Membrane-based Enthalpy Exchanger: material considerations and clarification of moisture resistance. Journal of Membrane Science, 2001, 189, 179-191.	8.2	159
178	Ozone emission rate testing and ranking method using environmental chamber. Atmospheric Environment, 2001, 35, 2143-2151.	4.1	27
179	Energy saving possibilities with cooled-ceiling systems. Energy and Buildings, 1995, 23, 147-158.	6.7	82
180	Two-dimensional simulation of airflow and thermal comfort in a room with open-window and indoor cooling systems. Energy and Buildings, 1992, 18, 65-75.	6.7	16