

Christopher Y H Chao

List of Publications by Year in descending order

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205
papers

11,018
citations

30070

54
h-index

34986

98
g-index

212
all docs

212
docs citations

212
times ranked

9286
citing authors

#	ARTICLE	IF	CITATIONS
1	Energy consumption modelling of a passive hybrid system for office buildings in different climates. <i>Energy</i> , 2022, 239, 121914.	8.8	14
2	Experimental study on the thermal-hydraulic performance of a fluttering split flag in a channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2022, 182, 121945.	4.8	4
3	Statistical analysis of the organized turbulence structure in the inertial and roughness sublayers over real urban area by building-resolved large-eddy simulation. <i>Building and Environment</i> , 2022, 207, 108464.	6.9	12
4	The use of acoustic streaming in Sub-micron particle sorting. <i>Aerosol Science and Technology</i> , 2022, 56, 247-260.	3.1	2
5	A Solution-Processed Inorganic Emitter with High Spectral Selectivity for Efficient Subambient Radiative Cooling in Hot Humid Climates. <i>Advanced Materials</i> , 2022, 34, e2109350.	21.0	62
6	A large-area versatile textile for radiative warming and biomechanical energy harvesting. <i>Nano Energy</i> , 2022, 95, 106996.	16.0	20
7	Airborne infection risk of nearby passengers in a cabin environment and implications for infection control. <i>Travel Medicine and Infectious Disease</i> , 2022, 47, 102285.	3.0	5
8	Development and performance evaluation of a chiller plant predictive operational control strategy by artificial intelligence. <i>Energy and Buildings</i> , 2022, 262, 112017.	6.7	11
9	Infection control measures for public transportation derived from the flow dynamics of obstructed cough jet. <i>Journal of Aerosol Science</i> , 2022, 163, 105995.	3.8	0
10	Hybrid nanofluid spray cooling performance and its residue surface effects: Toward thermal management of high heat flux devices. <i>Applied Thermal Engineering</i> , 2022, 211, 118454.	6.0	18
11	Effects of non-wetting fraction and pitch distance in flow boiling heat transfer in a wettability-patterned microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2022, 190, 122753.	4.8	13
12	The effect of head orientation and personalized ventilation on bioaerosol deposition from a cough. <i>Indoor Air</i> , 2022, 32, .	4.3	3
13	All-weather thermochromic windows for synchronous solar and thermal radiation regulation. <i>Science Advances</i> , 2022, 8, eabn7359.	10.3	70
14	Experimental and numerical study of heat transfer performance of a channel flow with an inverted flag. <i>International Journal of Heat and Mass Transfer</i> , 2022, 193, 122969.	4.8	2
15	Copper-alumina hybrid nanofluid droplet phase change dynamics over heated plain copper and porous residue surfaces. <i>International Journal of Thermal Sciences</i> , 2022, 182, 107795.	4.9	0
16	Performance of airflow distance from personalized ventilation on personal exposure to airborne droplets from different orientations. <i>Indoor and Built Environment</i> , 2021, 30, 1643-1653.	2.8	13
17	Solution-Processed All-Ceramic Plasmonic Metamaterials for Efficient Solar-Thermal Conversion over 100-727 Å. <i>Advanced Materials</i> , 2021, 33, e2005074.	21.0	76
18	Holey aligned electrodes through in-situ ZIF-8-assisted-etching for high-performance aqueous redox flow batteries. <i>Science Bulletin</i> , 2021, 66, 904-913.	9.0	32

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19	Short-range bioaerosol deposition and recovery of viable viruses and bacteria on surfaces from a cough and implications for respiratory disease transmission. <i>Aerosol Science and Technology</i> , 2021, 55, 215-230.	3.1	18
20	Short-range bioaerosol deposition and inhalation of cough droplets and performance of personalized ventilation. <i>Aerosol Science and Technology</i> , 2021, 55, 474-485.	3.1	19
21	Solar-assisted icephobicity down to $\sim 60^{\circ}\text{C}$ with superhydrophobic selective surfaces. <i>Cell Reports Physical Science</i> , 2021, 2, 100384.	5.6	43
22	Biotechnology of Plastic Waste Degradation, Recycling, and Valorization: Current Advances and Future Perspectives. <i>ChemSusChem</i> , 2021, 14, 4103-4114.	6.8	34
23	Respiratory bioaerosol deposition from a cough and recovery of viable viruses on nearby seats in a cabin environment. <i>Indoor Air</i> , 2021, 31, 1913-1925.	4.3	10
24	Corrected radiative cooling power measured by equivalent dissipative thermal reservoir method. <i>International Journal of Heat and Mass Transfer</i> , 2021, 174, 121341.	4.8	7
25	Experimental study of particle deposition on patterned microstructured surfaces in a chamber environment. <i>Journal of Aerosol Science</i> , 2021, 157, 105802.	3.8	7
26	Biotechnology of Plastic Waste Degradation, Recycling, and Valorization: Current Advances and Future Perspectives. <i>ChemSusChem</i> , 2021, 14, 3981-3981.	6.8	8
27	Boosting power output of flutter-driven triboelectric nanogenerator by flexible flagpole. <i>Nano Energy</i> , 2021, 88, 106284.	16.0	24
28	Effective R-value approach to comprehend the essence of integrated opaque passive substrate properties. <i>Journal of Building Engineering</i> , 2021, 44, 102865.	3.4	3
29	Droplet evaporation and boiling for different mixing ratios of the silver-graphene hybrid nanofluid over heated surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2021, 180, 121786.	4.8	14
30	Thermo-radiative energy conversion efficiency of a passive radiative fluid cooling system. <i>Renewable Energy</i> , 2021, 180, 700-711.	8.9	7
31	Droplet Evaporation of Cu-Al ₂ O ₃ Hybrid Nanofluid Over Its Residue and Copper Surfaces: Toward Developing a New Analytical Model. <i>Journal of Heat Transfer</i> , 2021, 143, .	2.1	3
32	Enhancement of submicron particle deposition on a semi-circular surface in turbulent flow. <i>Indoor and Built Environment</i> , 2020, 29, 101-116.	2.8	9
33	Field investigation of a photonic multi-layered TiO ₂ passive radiative cooler in sub-tropical climate. <i>Renewable Energy</i> , 2020, 146, 44-55.	8.9	97
34	Droplet detachment behavior from a rough hydrophilic surface. <i>Journal of Aerosol Science</i> , 2020, 139, 105469.	3.8	5
35	Towards uniform distributions of reactants via the aligned electrode design for vanadium redox flow batteries. <i>Applied Energy</i> , 2020, 259, 114198.	10.1	45
36	Daytime passive radiative cooling by ultra emissive bio-inspired polymeric surface. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110296.	6.2	115

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37	Bio-inspired cooling technologies and the applications in buildings. <i>Energy and Buildings</i> , 2020, 225, 110313.	6.7	34
38	Bio-inspired TiO ₂ nano-cone antireflection layer for the optical performance improvement of VO ₂ thermochromic smart windows. <i>Scientific Reports</i> , 2020, 10, 11376.	3.3	18
39	Bio-inspired patterned surface for submicron particle deposition in a fully developed turbulent duct. <i>Building Simulation</i> , 2020, 13, 1111-1123.	5.6	2
40	Investigation of particle deposition on a micropatterned surface as an energy-efficient air cleaning technique in ventilation ducting systems. <i>Aerosol Science and Technology</i> , 2020, 54, 1210-1222.	3.1	5
41	Aligned hierarchical electrodes for high-performance aqueous redox flow battery. <i>Applied Energy</i> , 2020, 271, 115235.	10.1	28
42	A novel electrode formed with electrospun nano- and micro-scale carbon fibers for aqueous redox flow batteries. <i>Journal of Power Sources</i> , 2020, 470, 228441.	7.8	23
43	Rapid thermal annealing assisted facile solution method for tungsten-doped vanadium dioxide thin films on glass substrate. <i>Journal of Alloys and Compounds</i> , 2020, 833, 155053.	5.5	26
44	Evaporation and wetting behavior of silver-graphene hybrid nanofluid droplet on its porous residue surface for various mixing ratios. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119618.	4.8	31
45	Study of Coalescence-Induced Jumping Droplets on Biphilic Nanostructured Surfaces for Thermal Diodes in Thermal Energy Storage Systems. , 2020, , .		2
46	Perovskite thermochromic smart window: Advanced optical properties and low transition temperature. <i>Applied Energy</i> , 2019, 254, 113690.	10.1	86
47	A theoretical model for the effective thermal conductivity of graphene coated metal foams. <i>Applied Thermal Engineering</i> , 2019, 161, 114112.	6.0	16
48	Scalable all-ceramic nanofilms as highly efficient and thermally stable selective solar absorbers. <i>Nano Energy</i> , 2019, 64, 103947.	16.0	62
49	Energy consumption, indoor thermal comfort and air quality in a commercial office with retrofitted heat, ventilation and air conditioning (HVAC) system. <i>Energy and Buildings</i> , 2019, 201, 202-215.	6.7	120
50	Study of particle resuspension from dusty surfaces using a centrifugal method. <i>Indoor Air</i> , 2019, 29, 791-802.	4.3	6
51	Experimental and theoretical study of a water-vapor chamber thermal diode. <i>International Journal of Heat and Mass Transfer</i> , 2019, 138, 173-183.	4.8	26
52	Ultrafine particle emissions from a smouldering cigarette in a residence and its associated lung cancer risk. <i>Indoor and Built Environment</i> , 2019, 28, 1396-1405.	2.8	3
53	A phase-change thermal diode using electrostatic-induced coalescing-jumping droplets. <i>International Journal of Heat and Mass Transfer</i> , 2019, 135, 294-304.	4.8	37
54	Experimental and numerical investigation of submicron particle deposition enhancement by patterned surface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 609, 042018.	0.6	0

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55	Electrostatic-induced coalescing-jumping droplets on nanostructured superhydrophobic surfaces. <i>International Journal of Heat and Mass Transfer</i> , 2019, 128, 550-561.	4.8	19
56	On trade-off for dispersion stability and thermal transport of Cu-Al ₂ O ₃ hybrid nanofluid for various mixing ratios. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1200-1216.	4.8	66
57	Dataset on critical parameters of dispersion stability of Cu/Al ₂ O ₃ nanofluid and hybrid nanofluid for various ultra-sonication times. <i>Data in Brief</i> , 2019, 22, 863-865.	1.0	14
58	Experimental Investigation on Silver-Graphene Hybrid Nanofluid Droplet Evaporation and Wetting Characteristics of its Nanostructured Droplet Residue. , 2019, , .		1
59	Techno-economic analysis on frosting/defrosting operations for an air source heat pump unit with an optimized multi-circuit outdoor coil. <i>Energy and Buildings</i> , 2018, 166, 165-177.	6.7	21
60	Enhancing the performance of a zeolite 13X/CaCl ₂ water adsorption cooling system by improving adsorber design and operation sequence. <i>Energy and Buildings</i> , 2018, 158, 1368-1378.	6.7	37
61	Thermal management of lithium ion batteries using graphene coated nickel foam saturated with phase change materials. <i>International Journal of Thermal Sciences</i> , 2018, 124, 23-35.	4.9	191
62	Studies on detachment behavior of micron sized droplets: A comparison between pure fluid and nanofluid. <i>Aerosol Science and Technology</i> , 2018, 52, 69-77.	3.1	5
63	Influence of sinusoidal airflow and airflow distance on human thermal response to a personalized ventilation system. <i>Indoor and Built Environment</i> , 2018, 27, 317-330.	2.8	3
64	Experimental investigation on composite adsorbent "Water pair for a solar-powered adsorption cooling system. <i>Applied Thermal Engineering</i> , 2018, 131, 649-659.	6.0	41
65	Performance investigation of nanostructured composite surfaces for use in adsorption cooling systems with a mass recovery cycle. <i>Science and Technology for the Built Environment</i> , 2018, 24, 1084-1103.	1.7	7
66	A numerical study of daytime passive radiative coolers for space cooling in buildings. <i>Building Simulation</i> , 2018, 11, 1011-1028.	5.6	43
67	Formation of electrodes by self-assembling porous carbon fibers into bundles for vanadium redox flow batteries. <i>Journal of Power Sources</i> , 2018, 405, 106-113.	7.8	54
68	Differential gene expression in <i>Escherichia coli</i> during aerosolization from liquid suspension. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 6257-6267.	3.6	20
69	Numerical Study on Merging and Interaction of Jet Diffusion Flames. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	0
70	Ultra-broadband asymmetric transmission metallic gratings for subtropical passive daytime radiative cooling. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 330-339.	6.2	44
71	A field investigation of passive radiative cooling under Hong Kong's climate. <i>Renewable Energy</i> , 2017, 106, 52-61.	8.9	119
72	The effect of aerosol size distribution and concentration on the removal efficiency of an acoustic aerosol removal system. <i>Journal of Aerosol Science</i> , 2017, 104, 79-89.	3.8	19

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73	A computational study of the effects of the radius ratio and attachment angle on the performance of a Darrieus-Savonius combined wind turbine. <i>Renewable Energy</i> , 2017, 113, 329-334.	8.9	65
74	A field investigation of a solar-powered adsorption cooling system under Guangzhou's climate with various numbers of heat exchangers in the adsorbers. <i>Science and Technology for the Built Environment</i> , 2017, 23, 1282-1292.	1.7	6
75	Evaporation of Al ₂ O ₃ -water nanofluids in an externally micro-grooved evaporator. <i>Science and Technology for the Built Environment</i> , 2017, 23, 345-354.	1.7	15
76	Detachment of droplets by air jet impingement. <i>Aerosol Science and Technology</i> , 2017, 51, 467-476.	3.1	8
77	Development of a phase change material (PCM)-based thermal switch. <i>HKIE Transactions</i> , 2017, 24, 107-112.	0.1	10
78	Study of jumping water droplets on superhydrophobic surfaces with electric fields. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 672-681.	4.8	33
79	Airborne particles in indoor environment of homes, schools, offices and aged care facilities: The main routes of exposure. <i>Environment International</i> , 2017, 108, 75-83.	10.0	256
80	Study of residue patterns of aqueous nanofluid droplets with different particle sizes and concentrations on different substrates. <i>International Journal of Heat and Mass Transfer</i> , 2017, 105, 230-236.	4.8	41
81	Study of Electrostatic-Induced Jumping Droplets on Superhydrophobic Surfaces. , 2017, , .		1
82	Experimental investigation of a passive thermal management system for high-powered lithium ion batteries using nickel foam-paraffin composite. <i>Energy</i> , 2016, 115, 209-218.	8.8	151
83	Investigation of Flame Height From Multiple Liquefied Natural Gas Fire. , 2016, , .		2
84	The correlation between acoustic streaming patterns and aerosol removal efficiencies in an acoustic aerosol removal system. <i>Aerosol Science and Technology</i> , 2016, 50, 52-62.	3.1	11
85	Solid-state thermal diode with shape memory alloys. <i>International Journal of Heat and Mass Transfer</i> , 2016, 93, 605-611.	4.8	64
86	Exhaust Heat Powered Adsorption Air Conditioner for Automotive Applications. , 2015, , .		0
87	Study of enthalpy of evaporation, saturated vapor pressure and evaporation rate of aqueous nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2015, 84, 931-941.	4.8	57
88	Experimental performance analysis on an adsorption cooling system using zeolite 13X/CaCl ₂ adsorbent with various operation sequences. <i>International Journal of Heat and Mass Transfer</i> , 2015, 85, 343-355.	4.8	57
89	Measurement of properties and performance prediction of the new MWCNT-embedded zeolite 13X/CaCl ₂ composite adsorbents. <i>International Journal of Heat and Mass Transfer</i> , 2015, 89, 308-319.	4.8	47
90	Experiment verified simulation study of the operating sequences on the performance of adsorption cooling system. <i>Building Simulation</i> , 2015, 8, 255-269.	5.6	10

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91	Finite-difference lattice Boltzmann simulation on acoustics-induced particle deposition. <i>Comptes Rendus - Mecanique</i> , 2015, 343, 589-598.	2.1	5
92	Design and fabrication of micro hot-wire flow sensor using 0.35 μ m CMOS MEMS technology. , 2014, , .		5
93	Simulation Study of the Heat and Mass Recovery on the Performance of Adsorption Cooling Systems. , 2014, , .		0
94	Investigation of Particle Size on Gasification Process for Solid Waste Treatment. , 2014, , .		0
95	Effects of Surface Material, Ventilation, and Human Behavior on Indirect Contact Transmission Risk of Respiratory Infection. <i>Risk Analysis</i> , 2014, 34, 818-830.	2.7	24
96	Modeling a solar-powered double bed novel composite adsorbent (silica activated) Tj ETQqO O O rgBT /Overlock 10 Tf 50 542 Td (carbon	5.6	22
97	A semi-analytical model for the thermal conductivity of nanofluids and determination of the nanolayer thickness. <i>International Journal of Heat and Mass Transfer</i> , 2014, 70, 202-214.	4.8	61
98	The Use of Nonlinear Acoustics as an Energy-Efficient Technique for Aerosol Removal. <i>Aerosol Science and Technology</i> , 2014, 48, 907-915.	3.1	25
99	Effect of human movement on airborne disease transmission in an airplane cabin: study using numerical modeling and quantitative risk analysis. <i>BMC Infectious Diseases</i> , 2014, 14, 434.	2.9	46
100	Detachment of Droplets in a Fully Developed Turbulent Channel Flow. <i>Aerosol Science and Technology</i> , 2014, 48, 916-923.	3.1	24
101	Study on the interzonal migration of airborne infectious particles in an isolation ward using benign bacteria. <i>Indoor Air</i> , 2013, 23, 148-161.	4.3	22
102	Comparison of the Resuspension Behavior Between Liquid and Solid Aerosols. <i>Aerosol Science and Technology</i> , 2013, 47, 1239-1247.	3.1	14
103	Indoor aerosols: from personal exposure to risk assessment. <i>Indoor Air</i> , 2013, 23, 462-487.	4.3	347
104	A theoretical model on the effective stagnant thermal conductivity of an adsorbent embedded with a highly thermal conductive material. <i>International Journal of Heat and Mass Transfer</i> , 2013, 65, 863-872.	4.8	13
105	Smart Green Buildings of Tomorrow. <i>Indoor and Built Environment</i> , 2013, 22, 595-597.	2.8	1
106	Modeling a Novel Composite Adsorbent Based Adsorption Chiller Driven by Solar Energy. , 2013, , .		0
107	Improved Thermal Conductivity of 13X/CaCl ₂ Composite Adsorbent by CNT Embedment. , 2013, , .		4
108	Particle Resuspension in a Wall-Bounded Turbulent Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013, 135, .	1.5	16

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109	On Detachment of Micron Droplets Using a Centrifugal Method. , 2013, , .		0
110	Estimation of the Aerodynamic Sizes of Single Bacterium-Laden Expiratory Aerosols Using Stochastic Modeling with Experimental Validation. Aerosol Science and Technology, 2012, 46, 1-12.	3.1	8
111	Evaluation of the Drag Force on Single-Walled Carbon Nanotubes in Rarefied Gases. Journal of Nanoscience and Nanotechnology, 2012, 12, 2311-2319.	0.9	12
112	Ultrafine Particle Emissions from Cigarette Smouldering, Incense Burning, Vacuum Cleaner Motor Operation and Cooking. Indoor and Built Environment, 2012, 21, 782-796.	2.8	41
113	Calcium Ion-Exchanged Zeolite 13X: Properties Measurement and Potential Usage in Solar Adsorption Cooling Systems. Smart Innovation, Systems and Technologies, 2012, , 569-579.	0.6	1
114	Heat and Mass Transfer Characteristics of a Zeolite 13X/CaCl ₂ Composite Adsorbent in Adsorption Cooling Systems. , 2012, , .		9
115	Synthesis of Co ₃ O ₄ Nanowire Arrays Supported on Ni Foam for Removal of Volatile Organic Compounds. Journal of Nanoscience and Nanotechnology, 2012, 12, 3563-3566.	0.9	2
116	Activated carbon, silica-gel and calcium chloride composite adsorbents for energy efficient solar adsorption cooling and dehumidification systems. International Journal of Refrigeration, 2012, 35, 1626-1638.	3.4	145
117	Performance analysis of a waste heat driven activated carbon based composite adsorbent " Water adsorption chiller using simulation model. International Journal of Heat and Mass Transfer, 2012, 55, 7596-7610.	4.8	64
118	Retrospective analysis of multi-drug resistant tuberculosis outbreak during a flight using computational fluid dynamics and infection risk assessment. Building and Environment, 2012, 47, 50-57.	6.9	15
119	Performance predictions for a new zeolite 13X/CaCl ₂ composite adsorbent for adsorption cooling systems. International Journal of Heat and Mass Transfer, 2012, 55, 3214-3224.	4.8	122
120	Exposure and cancer risk toward cooking-generated ultrafine and coarse particles in Hong Kong homes. HVAC and R Research, 2012, 18, 204-216.	0.6	19
121	Development of New Zeolite 13X/CaCl ₂ Composite Adsorbent for Air-Conditioning Application. , 2011, , .		0
122	Theoretical analysis of the motion and evaporation of exhaled respiratory droplets of mixed composition. Journal of Aerosol Science, 2011, 42, 1-10.	3.8	73
123	Modality of human expired aerosol size distributions. Journal of Aerosol Science, 2011, 42, 839-851.	3.8	523
124	Expiratory Aerosol Transport and Deposition in Different Indoor Environments: Exposure and Risk Assessment Related to Influenza Transmission. Epidemiology, 2011, 22, S59.	2.7	0
125	Particle Collection Efficiency of a Lens-Liquid Filtration System. , 2011, , .		0
126	Use of Risk Assessment and Likelihood Estimation to Analyze Spatial Distribution Pattern of Respiratory Infection Cases. Risk Analysis, 2011, 31, 351-369.	2.7	5

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127	Influence of modification method and transition metal type on the physicochemical properties of MCM-41 catalysts and their performances in the catalytic ozonation of toluene. <i>Applied Catalysis B: Environmental</i> , 2011, 107, 245-252.	20.2	45
128	Ultrafine particles, and PM2.5 generated from cooking in homes. <i>Atmospheric Environment</i> , 2011, 45, 6141-6148.	4.1	164
129	Fly-ash products from biomass co-combustion for VOC control. <i>Bioresource Technology</i> , 2010, 101, 1075-1081.	9.6	18
130	Review and comparison between the Wells-Riley and dose-response approaches to risk assessment of infectious respiratory diseases. <i>Indoor Air</i> , 2010, 20, 2-16.	4.3	276
131	Removal and Leakage of Environmental Tobacco Smoke from a Model Smoking Room. <i>Journal of Occupational and Environmental Hygiene</i> , 2010, 7, 573-584.	1.0	5
132	Methane emission abatement by Pd-ion-exchanged zeolite 13X with ozone. <i>Energy and Environmental Science</i> , 2010, 3, 1092.	30.8	15
133	Catalytic Combustion of Methane with Ozone Using Pd-Exchanged Zeolite X: Experimental Investigation and Kinetics Model. <i>Combustion Science and Technology</i> , 2010, 182, 1429-1445.	2.3	9
134	Recycling Biomass Co-Combustion Fly-Ash Products for an Integrated Solar-Assisted Ventilation System. , 2009, , .		0
135	Experimental Study of Dispersion and Deposition of Expiratory Aerosols in Aircraft Cabins and Impact on Infectious Disease Transmission. <i>Aerosol Science and Technology</i> , 2009, 43, 466-485.	3.1	91
136	Modeling the Fate of Expiratory Aerosols and the Associated Infection Risk in an Aircraft Cabin Environment. <i>Aerosol Science and Technology</i> , 2009, 43, 322-343.	3.1	99
137	Personalized ventilation as a control measure for airborne transmissible disease spread. <i>Journal of the Royal Society Interface</i> , 2009, 6, S715-26.	3.4	92
138	Characterization of expiration air jets and droplet size distributions immediately at the mouth opening. <i>Journal of Aerosol Science</i> , 2009, 40, 122-133.	3.8	778
139	Size distribution and sites of origin of droplets expelled from the human respiratory tract during expiratory activities. <i>Journal of Aerosol Science</i> , 2009, 40, 256-269.	3.8	848
140	Use of multi-transition-metal-ion-exchanged zeolite 13X catalysts in methane emissions abatement. <i>Combustion and Flame</i> , 2008, 153, 119-129.	5.2	10
141	Co-firing coal with rice husk and bamboo and the impact on particulate matters and associated polycyclic aromatic hydrocarbon emissions. <i>Bioresource Technology</i> , 2008, 99, 83-93.	9.6	86
142	Study of a micro absorption heat pump system. <i>International Journal of Refrigeration</i> , 2008, 31, 1198-1206.	3.4	11
143	A methodology for estimating airborne virus exposures in indoor environments using the spatial distribution of expiratory aerosols and virus viability characteristics. <i>Indoor Air</i> , 2008, 18, 425-438.	4.3	65
144	Removal of VOCs from indoor environment by ozonation over different porous materials. <i>Atmospheric Environment</i> , 2008, 42, 2300-2311.	4.1	90

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145	Catalytic Ozonation of Toluene Using Zeolite and MCM-41 Materials. Environmental Science & Technology, 2008, 42, 8504-8509.	10.0	84
146	Methane Emissions Abatement by Multi-Ion-Exchanged Zeolite A Prepared from Both Commercial-Grade Zeolite and Coal Fly Ash. Environmental Science & Technology, 2008, 42, 7392-7397.	10.0	21
147	Development of an Electroosmotic Pump-Driven Micro LiBr Absorption Heat Pump System for Controlling Microclimate in Protective Clothing: Feasibility Review and Role of the Pump. HVAC and R Research, 2008, 14, 467-487.	0.6	1
148	Transport and Removal of Expiratory Droplets in Hospital Ward Environment. Aerosol Science and Technology, 2008, 42, 377-394.	3.1	82
149	Dispersion of Expiratory Droplets in a General Hospital Ward with Ceiling Mixing Type Mechanical Ventilation System. Aerosol Science and Technology, 2007, 41, 244-258.	3.1	85
150	Conversion of Coal Fly Ash Into Zeolite 4A and Its Applications in Waste Water Treatment and Greenhouse Gas Reduction. , 2007, , 129.		1
151	Fluid Flow and Heat Transfer Characteristics of Slug Bubbly Flow in Micro Condensers. , 2007, , 769.		0
152	Transport Characteristics of Expiratory Droplets and Droplet Nuclei in Indoor Environments With Different Ventilation Airflow Patterns. Journal of Biomechanical Engineering, 2007, 129, 341-353.	1.3	71
153	Co-Combustion of Coal With Rice Husk and Bamboo in Power Generation. , 2007, , 343.		0
154	Analytical and experimental study of premixed methane-air flame propagation in narrow channels. International Journal of Heat and Mass Transfer, 2007, 50, 1302-1313.	4.8	34
155	Numerical study of electroosmotic (EO) flow in microfabricated EO pump with overlapped electrical double layer (EDL). International Journal of Refrigeration, 2007, 30, 290-298.	3.4	11
156	An experimental study of the fluid flow and heat transfer characteristics in micro-condensers with slug-bubbly flow. International Journal of Refrigeration, 2007, 30, 1309-1318.	3.4	31
157	Potential use of a combined ozone and zeolite system for gaseous toluene elimination. Journal of Hazardous Materials, 2007, 143, 118-127.	12.4	62
158	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
159	Co-combustion performance of coal with rice husks and bamboo. Atmospheric Environment, 2007, 41, 7462-7472.	4.1	62
160	A study of the performance of microfabricated electroosmotic pump. Sensors and Actuators A: Physical, 2007, 135, 273-282.	4.1	16
161	Performance of Transition Metal Ions Exchanged Zeolite 13X in Greenhouse Gas Reduction. , 2007, , .		0
162	Performance of Underfloor Air Distribution in a Field Setting. International Journal of Ventilation, 2006, 5, 291-300.	0.4	7

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163	A study of the dispersion of expiratory aerosols in unidirectional downward and ceiling-return type airflows using a multiphase approach. <i>Indoor Air</i> , 2006, 16, 296-312.	4.3	106
164	Effects of step-change of synthesis temperature on synthesis of zeolite 4A from coal fly ash. <i>Microporous and Mesoporous Materials</i> , 2006, 88, 145-151.	4.4	95
165	Pure, single phase, high crystalline, chamfered-edge zeolite 4A synthesized from coal fly ash for use as a builder in detergents. <i>Journal of Hazardous Materials</i> , 2006, 137, 401-409.	12.4	75
166	Synthesis of MCM-41 from coal fly ash by a green approach: Influence of synthesis pH. <i>Journal of Hazardous Materials</i> , 2006, 137, 1135-1148.	12.4	128
167	Removal of mixed heavy metal ions in wastewater by zeolite 4A and residual products from recycled coal fly ash. <i>Journal of Hazardous Materials</i> , 2005, 127, 89-101.	12.4	594
168	Numerical and experimental study of velocity and temperature characteristics in a ventilated enclosure with underfloor ventilation systems. <i>Indoor Air</i> , 2005, 15, 342-355.	4.3	46
169	Development of an Enthalpy and Carbon Dioxide Based Demand Control Ventilation for Indoor Air Quality and Energy Saving with Neural Network Control. <i>Indoor and Built Environment</i> , 2004, 13, 463-475.	2.8	14
170	Experimental study of ventilation performance and contaminant distribution of underfloor ventilation systems vs. traditional ceiling-based ventilation system. <i>Indoor Air</i> , 2004, 14, 306-316.	4.3	9
171	Airflow and air temperature distribution in the occupied region of an underfloor ventilation system. <i>Building and Environment</i> , 2004, 39, 749-762.	6.9	32
172	Effects of fuel properties on the combustion behavior of different types of porous beds soaked with combustible liquid. <i>International Journal of Heat and Mass Transfer</i> , 2004, 47, 5201-5210.	4.8	19
173	Development of a dual-mode demand control ventilation strategy for indoor air quality control and energy saving. <i>Building and Environment</i> , 2004, 39, 385-397.	6.9	97
174	Ventilation performance measurement using constant concentration dosing strategy. <i>Building and Environment</i> , 2004, 39, 1277-1288.	6.9	40
175	Penetration coefficient and deposition rate as a function of particle size in non-smoking naturally ventilated residences. <i>Atmospheric Environment</i> , 2003, 37, 4233-4241.	4.1	119
176	Confined catalytic oxidation of volatile organic compounds by transition metal containing zeolites and ionizer. <i>Atmospheric Environment</i> , 2003, 37, 5433-5437.	4.1	17
177	Experimental study and asymptotic analysis of horizontally forced forward smoldering combustion. <i>Combustion and Flame</i> , 2003, 135, 405-419.	5.2	26
178	Source Apportionment of Indoor PM _{2.5} and PM ₁₀ in Homes. <i>Indoor and Built Environment</i> , 2002, 11, 27-37.	2.8	5
179	Burning Characteristics of Non-Spread Diffusion Flames of Liquid Fuel Soaked in Porous Beds. <i>Journal of Fire Sciences</i> , 2002, 20, 203-225.	2.0	11
180	Forced Forward Smoldering Propagation in Horizontally Oriented Flexible Polyurethane Foam. <i>Journal of Fire Sciences</i> , 2002, 20, 113-131.	2.0	12

#	ARTICLE	IF	CITATIONS
181	Residential indoor PM10 and PM2.5 in Hong Kong and the elemental composition. Atmospheric Environment, 2002, 36, 265-277.	4.1	191
182	Behavior of non-spread diffusion flames of combustible liquid soaked in porous beds. Proceedings of the Combustion Institute, 2002, 29, 251-257.	3.9	12
183	Effects of preheating and operation conditions on combustion in a porous medium. International Journal of Heat and Mass Transfer, 2002, 45, 4315-4324.	4.8	31
184	Experimental Study of Thermal Comfort in an Office Environment with an Underfloor Ventilation System. Indoor and Built Environment, 2002, 11, 250-265.	2.8	2
185	Size Distribution of Indoor Particulate Matter in 60 Homes in Hong Kong. Indoor and Built Environment, 2002, 11, 18-26.	2.8	1
186	Quantification of Polycyclic Aromatic Hydrocarbons and Aliphatic Hydrocarbons in Air Particulate Samples in Homes. Indoor and Built Environment, 2002, 11, 123-133.	2.8	0
187	Quantification of Indoor TVOC Levels from Different Sources in Mechanically Ventilated Buildings. Indoor and Built Environment, 2002, 11, 340-350.	2.8	0
188	Comparison of the Thermal Decomposition Behavior of a Non-Fire Retarded and a Fire Retarded Flexible Polyurethane Foam with Phosphorus and Brominated Additives. Journal of Fire Sciences, 2001, 19, 137-156.	2.0	52
189	Comparison between indoor and outdoor air contaminant levels in residential buildings from passive sampler study. Building and Environment, 2001, 36, 999-1007.	6.9	55
190	Transition from smoldering to flaming combustion of horizontally oriented flexible polyurethane foam with natural convection. Combustion and Flame, 2001, 127, 2252-2264.	5.2	57
191	An empirical model for outdoor contaminant transmission into residential buildings and experimental verification. Atmospheric Environment, 2001, 35, 1585-1596.	4.1	50
192	Quantification of indoor VOCs in twenty mechanically ventilated buildings in Hong Kong. Atmospheric Environment, 2001, 35, 5895-5913.	4.1	71
193	A study of personal exposure to nitrogen dioxide using passive samplers. Building and Environment, 2000, 35, 545-553.	6.9	26
194	Study of Indoor Radon Levels in High-Rise Air-Conditioned Office Buildings. Journal of Occupational and Environmental Hygiene, 1999, 14, 811-818.	0.4	3
195	Flame Spread Over Solid Surface Coated with a Layer of Noncombustible Porous Material. Journal of Fire Sciences, 1999, 17, 307-328.	2.0	2
196	A methodology to investigate the particulate penetration coefficient through building shell. Atmospheric Environment, 1999, 33, 881-893.	4.1	66
197	RADON EMANATION OF BUILDING MATERIALâ€™IMPACT OF BACK DIFFUSION AND DIFFERENCE BETWEEN ONE-DIMENSIONAL AND THREE-DIMENSIONAL TESTS. Health Physics, 1999, 76, 675-681.	0.5	25
198	A territory wide survey on indoor particulate level in Hong Kong. Building and Environment, 1998, 34, 213-220.	6.9	19

#	ARTICLE	IF	CITATIONS
199	Indoor perchloroethylene accumulation from dry cleaned clothing on residential premises. Building and Environment, 1998, 34, 319-328.	6.9	6
200	Legionella: Impact of risk on building services systems in Hong Kong. Building Services Engineering Research and Technology, 1997, 18, 93-98.	1.8	3
201	Determination of radon emanation and back diffusion characteristics of building materials in small chamber tests. Building and Environment, 1997, 32, 355-362.	6.9	55
202	Influence of ventilation on indoor radon level. Building and Environment, 1997, 32, 527-534.	6.9	49
203	Concurrent Horizontal Flame Spread: The Combined Effect of Oxidizer Flow Velocity, Turbulence and Oxygen Concentration. Combustion Science and Technology, 1995, 110-111, 19-51.	2.3	15
204	Phase transformation in an Fe-9.0Al-29.5Mn-1.2Si alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1407-1415.	1.4	13
205	The effect of gate electrodes using tungsten silicides and/or poly-silicon on the dielectric characteristics of very thin oxides. Solid-State Electronics, 1990, 33, 365-373.	1.4	6