

Chun-Ho Liu

List of Publications by Year in descending order

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64
papers

2,352
citations

218381

26
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214527

47
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65
all docs

65
docs citations

65
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	Academic discipline as a moderating variable between seating location and academic performance: implications for teaching. Higher Education Research and Development, 2022, 41, 1436-1450.	1.9	4
2	On the Flow Response to an Abrupt Change in Surface Roughness. Flow, Turbulence and Combustion, 2022, 108, 387-409.	1.4	3
3	Statistical analysis of the organized turbulence structure in the inertial and roughness sublayers over real urban area by building-resolved large-eddy simulation. Building and Environment, 2022, 207, 108464.	3.0	12
4	RANS simulation of near-field dispersion of reactive air pollutants. Building and Environment, 2022, 207, 108553.	3.0	11
5	Roughness sublayer over vegetation canopy: A wind tunnel study. Agricultural and Forest Meteorology, 2022, 316, 108880.	1.9	4
6	Effect of sampling duration on the estimate of pollutant concentration behind a heavy-duty vehicle: A large-eddy simulation. Environmental Pollution, 2022, , 119132.	3.7	0
7	Roughness sublayer flows over real urban morphology: A wind tunnel study. Building and Environment, 2021, 188, 107463.	3.0	25
8	Turbulent flows over real heterogeneous urban surfaces: Wind tunnel experiments and Reynolds-averaged Navier-Stokes simulations. Building Simulation, 2021, 14, 1345-1358.	3.0	18
9	A review of strategies for mitigating roadside air pollution in urban street canyons. Environmental Pollution, 2021, 280, 116971.	3.7	94
10	Performance evaluation of population-based metaheuristic algorithms and decision-making for multi-objective optimization of building design. Building and Environment, 2021, 198, 107855.	3.0	26
11	Wake dynamics and pollutant dispersion behind a light-duty lorry. Physics of Fluids, 2021, 33, .	1.6	5
12	Computational study on the transmission of the SARS-CoV-2 virus through aerosol in an elevator cabin: Effect of the ventilation system. Physics of Fluids, 2021, 33, 103325.	1.6	9
13	NOx and CO Fluctuations in a Busy Street Canyon. Environments - MDPI, 2021, 8, 137.	1.5	9
14	Near-field dynamics and plume dispersion after an on-road truck: Implication to remote sensing. Science of the Total Environment, 2020, 748, 141211.	3.9	6
15	Pedestrian wind comfort near a super-tall building with various configurations in an urban-like setting. Building Simulation, 2020, 13, 1385-1408.	3.0	24
16	Large eddy simulation of vehicle emissions dispersion: Implications for on-road remote sensing measurements. Environmental Pollution, 2020, 259, 113974.	3.7	14
17	Optimizing Lift-up Design to Maximize Pedestrian Wind and Thermal Comfort in "Hot-Calm" and "Cold-Windy" Climates. Sustainable Cities and Society, 2020, 58, 102146.	5.1	27
18	Transport mechanism of urban plume dispersion. Building and Environment, 2019, 161, 106239.	3.0	3

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19	Study of Indoor Ventilation Based on Large-Scale [DNS by a Domain Decomposition Method. Symmetry, 2019, 11, 1416.	1.1	2
20	Wind tunnel measurements of pollutant plume dispersion over hypothetical urban areas. Building and Environment, 2018, 132, 357-366.	3.0	28
21	A wind tunnel study of ventilation mechanism over hypothetical urban roughness: The role of intermittent motion scales. Building and Environment, 2018, 135, 94-103.	3.0	14
22	Parameterization of vertical dispersion coefficient over idealized rough surfaces in isothermal conditions. Geoscience Letters, 2018, 5, .	1.3	3
23	Budget analysis for reactive plume transport over idealised urban areas. Geoscience Letters, 2018, 5, .	1.3	10
24	Wind tunnel measurements of turbulent boundary layer flows over arrays of ribs and cubes. Geoscience Letters, 2018, 5, .	1.3	4
25	Source depletion analogy for reactive plume dispersion over schematic urban areas. Atmospheric Environment, 2018, 190, 226-231.	1.9	2
26	A wind tunnel study of flows over idealised urban surfaces with roughness sublayer corrections. Theoretical and Applied Climatology, 2017, 130, 305-320.	1.3	21
27	Street-Level Ventilation in Hypothetical Urban Areas. Atmosphere, 2017, 8, 124.	1.0	11
28	A theory of ventilation estimate over hypothetical urban areas. Journal of Hazardous Materials, 2015, 296, 9-16.	6.5	50
29	Preliminary study of the parameterisation of street-level ventilation in idealised two-dimensional simulations. Building and Environment, 2015, 89, 345-355.	3.0	27
30	On the pollutant removal, dispersion, and entrainment over two-dimensional idealized street canyons. Atmospheric Research, 2014, 135-136, 128-142.	1.8	34
31	On the Mechanism of Air Pollutant Removal in Two-Dimensional Idealized Street Canyons: A Large-Eddy Simulation Approach. Boundary-Layer Meteorology, 2013, 148, 241-253.	1.2	29
32	Pollutant Plume Dispersion in the Atmospheric Boundary Layer over Idealized Urban Roughness. Boundary-Layer Meteorology, 2013, 147, 281-300.	1.2	18
33	On the study of ventilation and pollutant removal over idealized two-dimensional urban street canyons. Building Simulation, 2012, 5, 359-369.	3.0	24
34	Forced convective heat transfer over ribs at various separation. International Journal of Heat and Mass Transfer, 2012, 55, 5111-5119.	2.5	23
35	On the mechanism of air pollutant re-entrainment in two-dimensional idealized street canyons. Atmospheric Environment, 2011, 45, 4763-4769.	1.9	36
36	Large-Eddy Simulation of Flow and Pollutant Transports in and Above Two-Dimensional Idealized Street Canyons. Boundary-Layer Meteorology, 2011, 139, 411-437.	1.2	71

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37	A Review on Ozone Evolution and Its Relationship with Boundary Layer Characteristics in Urban Environments. <i>Water, Air, and Soil Pollution</i> , 2011, 214, 13-36.	1.1	51
38	Urban heat island and its effect on the cooling and heating demands in urban and suburban areas of Hong Kong. <i>Theoretical and Applied Climatology</i> , 2011, 103, 441-450.	1.3	27
39	CFD simulations of natural ventilation behaviour in high-rise buildings in regular and staggered arrangements at various spacings. <i>Energy and Buildings</i> , 2011, 43, 1149-1158.	3.1	122
40	Large-eddy simulation of turbulent transports in urban street canyons in different thermal stabilities. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011, 99, 434-442.	1.7	81
41	Effects of Urban Vegetation on Urban Air Quality. <i>Landscape Research</i> , 2011, 36, 173-188.	0.7	69
42	Computational fluid dynamics simulation of the wind flow over an airport terminal building. <i>Journal of Zhejiang University: Science A</i> , 2010, 11, 389-401.	1.3	19
43	Large-Eddy Simulation of Flow and Pollutant Transport in Urban Street Canyons with Ground Heating. <i>Boundary-Layer Meteorology</i> , 2010, 137, 187-204.	1.2	88
44	Effects of building aspect ratio and wind speed on air temperatures in urban-like street canyons. <i>Building and Environment</i> , 2010, 45, 176-188.	3.0	140
45	Parallel FEM LES with one-equation subgrid-scale model for incompressible flows. <i>International Journal of Computational Fluid Dynamics</i> , 2010, 24, 37-49.	0.5	5
46	Numerical investigation of pollutant transport characteristics inside deep urban street canyons. <i>Atmospheric Environment</i> , 2009, 43, 2410-2418.	1.9	115
47	On the correlation of air and pollutant exchange for street canyons in combined wind-buoyancy-driven flow. <i>Atmospheric Environment</i> , 2009, 43, 3682-3690.	1.9	82
48	On the comparison of the ventilation performance of street canyons of different aspect ratios and Richardson number. <i>Building Simulation</i> , 2009, 2, 53-61.	3.0	12
49	Large-Eddy Simulation of Flow and Pollutant Dispersion in High-Aspect-Ratio Urban Street Canyons with Wall Model. <i>Boundary-Layer Meteorology</i> , 2008, 129, 249-268.	1.2	92
50	Computational formulation for the evaluation of street canyon ventilation and pollutant removal performance. <i>Atmospheric Environment</i> , 2008, 42, 9041-9051.	1.9	76
51	Numerical study on the ozone formation inside street canyons using a chemistry box model. <i>Journal of Environmental Sciences</i> , 2008, 20, 832-837.	3.2	21
52	Physical Modeling of Flow Field inside Urban Street Canyons. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2058-2067.	0.6	85
53	Impact of building facades and ground heating on wind flow and pollutant transport in street canyons. <i>Atmospheric Environment</i> , 2007, 41, 9030-9049.	1.9	159
54	Performance analysis of a parallel finite element solution to the direct numerical simulation of fluid turbulence on Linux PC clusters. <i>Applied Mathematics and Computation</i> , 2006, 172, 731-743.	1.4	1

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55	Turbulent transport of passive scalar behind line sources in an unstably stratified open channel flow. <i>International Journal of Heat and Mass Transfer</i> , 2006, 49, 4305-4324.	2.5	3
56	Characteristics of air exchange in a street canyon with ground heating. <i>Atmospheric Environment</i> , 2006, 40, 6396-6409.	1.9	123
57	Finite element solution to passive scalar transport behind line sources under neutral and unstable stratification. <i>International Journal for Numerical Methods in Fluids</i> , 2006, 50, 623-648.	0.9	4
58	On plume meandering in unstable stratification. <i>Atmospheric Environment</i> , 2005, 39, 2995-2999.	1.9	1
59	Large-Eddy Simulation of Flow and Pollutant Transport in Street Canyons of Different Building-Height-to-Street-Width Ratios. <i>Journal of Applied Meteorology and Climatology</i> , 2004, 43, 1410-1424.	1.7	84
60	Turbulent Plane Couette Flow and Scalar Transport at Low Reynolds Number. <i>Journal of Heat Transfer</i> , 2003, 125, 988-998.	1.2	22
61	Large-Eddy Simulation of Flow and Scalar Transport in a Modeled Street Canyon. <i>Journal of Applied Meteorology and Climatology</i> , 2002, 41, 660-673.	1.7	104
62	Development of a finite element solution for the unsteady Navier-Stokes equations using projection method and fractional- τ -scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2001, 190, 4301-4317.	3.4	24
63	Turbulence and Dispersion Studies Using a Three-Dimensional Second-Order Closure Eulerian Model. <i>Journal of Applied Meteorology and Climatology</i> , 2001, 40, 92-113.	1.7	33
64	Parallel computation of atmospheric pollutant dispersion under unstably stratified atmosphere. <i>International Journal for Numerical Methods in Fluids</i> , 1998, 26, 677-696.	0.9	8