

# Keith Ngan

## List of Publications by Year in descending order

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32  
papers

544  
citations

687335

13  
h-index

642715

23  
g-index

32  
all docs

32  
docs citations

32  
times ranked

496  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the nature of large-scale mixing in the stratosphere and mesosphere. <i>Journal of Geophysical Research</i> , 2000, 105, 12433-12446.	3.3	67
2	Chaotic mixing and transport in Rossby-wave critical layers. <i>Journal of Fluid Mechanics</i> , 1997, 334, 315-351.	3.4	53
3	Improved variational analyses using a nonlinear humidity control variable. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1875-1887.	2.7	43
4	A Closer Look at Chaotic Advection in the Stratosphere. Part I: Geometric Structure. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 4134-4152.	1.7	36
5	Characterizing Ventilation and Exposure in Street Canyons Using Lagrangian Particles. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1177-1194.	1.5	35
6	Sensitivity of turbulent flow around a 3-D building array to urban boundary-layer stability. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2019, 193, 103958.	3.9	32
7	Characterising the pollutant ventilation characteristics of street canyons using the tracer age and age spectrum. <i>Atmospheric Environment</i> , 2015, 122, 611-621.	4.1	29
8	Analysing urban ventilation in building arrays with the age spectrum and mean age of pollutants. <i>Building and Environment</i> , 2018, 131, 288-305.	6.9	22
9	Influence of thermal stability on the ventilation of a 3-D building array. <i>Building and Environment</i> , 2020, 183, 106969.	6.9	21
10	Middle atmosphere predictability in a numerical weather prediction model: revisiting the inverse error cascade. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1366-1378.	2.7	17
11	Scalar mixing in an urban canyon. <i>Environmental Fluid Mechanics</i> , 2019, 19, 911-939.	1.6	16
12	Three-dimensionalization of freely-decaying two-dimensional turbulence. <i>Physics of Fluids</i> , 2004, 16, 2918-2932.	4.0	14
13	Aspect ratio effects in quasi-two-dimensional turbulence. <i>Physics of Fluids</i> , 2005, 17, 125102.	4.0	14
14	Revisiting the flow regimes for urban street canyons using the numerical Green's function. <i>Environmental Fluid Mechanics</i> , 2016, 16, 313-334.	1.6	14
15	A numerical study of local traffic volume and air quality within urban street canyons. <i>Science of the Total Environment</i> , 2021, 791, 148138.	8.0	14
16	Predictability of Rotating Stratified Turbulence. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 1384-1400.	1.7	13
17	Predictability of Turbulent Flow in Street Canyons. <i>Boundary-Layer Meteorology</i> , 2015, 156, 191-210.	2.3	13
18	Predicting mean velocity profiles inside urban canyons. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2020, 207, 104280.	3.9	12

#	ARTICLE	IF	CITATIONS
19	Effects of inhomogeneous ground-level pollutant sources under different wind directions. <i>Environmental Pollution</i> , 2021, 289, 117903.	7.5	12
20	Turbulent flow and dispersion inside and around elevated walkways. <i>Building and Environment</i> , 2020, 173, 106711.	6.9	11
21	Dissipation of Synoptic-Scale Flow by Small-Scale Turbulence. <i>Journals of the Atmospheric Sciences</i> , 2008, 65, 766-791.	1.7	10
22	Particulate matter inside and around elevated walkways. <i>Science of the Total Environment</i> , 2020, 699, 134256.	8.0	9
23	Spatially correlated and inhomogeneous random advection. <i>Physics of Fluids</i> , 2000, 12, 822-834.	4.0	8
24	Scalar decay in a three-dimensional chaotic flow. <i>Physical Review E</i> , 2011, 83, 056306.	2.1	5
25	Multiscale parameterisation of passive scalars via wavelet-based numerical homogenisation. <i>Applied Mathematical Modelling</i> , 2020, 82, 217-234.	4.2	5
26	Linear Error Dynamics for Turbulent Flow in Urban Street Canyons. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1195-1208.	1.5	4
27	Elucidating inhomogeneous scale-dependent flow statistics within regular obstacle arrays. <i>Physics of Fluids</i> , 2021, 33, .	4.0	4
28	Technical note: Dispersion of cooking-generated aerosols from an urban street canyon. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 2703-2726.	4.9	4
29	Effects of Time-Dependent Inflow Perturbations on Turbulent Flow in a Street Canyon. <i>Boundary-Layer Meteorology</i> , 2018, 167, 257.	2.3	3
30	Residence times of airborne pollutants in the urban environment. <i>Urban Climate</i> , 2020, 34, 100711.	5.7	3
31	On the relationship between stratospheric structure and tropospheric blocking patterns. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2013, 371, 20120180.	3.4	1
32	Wavelet Analysis Of Spectral Energy Transfers In Urban Turbulence. , 2019, , .		0