

# Chin-Hoh Moeng

## List of Publications by Year in descending order

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64  
papers

8,831  
citations

71102

41  
h-index

118850

62  
g-index

65  
all docs

65  
docs citations

65  
times ranked

4302  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Large-Eddy-Simulation Model for the Study of Planetary Boundary-Layer Turbulence. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 2052-2062.	1.7	1,062
2	A Comparison of Shear- and Buoyancy-Driven Planetary Boundary Layer Flows. <i>Journals of the Atmospheric Sciences</i> , 1994, 51, 999-1022.	1.7	622
3	A Large Eddy Simulation Intercomparison Study of Shallow Cumulus Convection. <i>Journals of the Atmospheric Sciences</i> , 2003, 60, 1201-1219.	1.7	607
4	Langmuir turbulence in the ocean. <i>Journal of Fluid Mechanics</i> , 1997, 334, 1-30.	3.4	547
5	Evaluation of Large-Eddy Simulations via Observations of Nocturnal Marine Stratocumulus. <i>Monthly Weather Review</i> , 2005, 133, 1443-1462.	1.4	519
6	A subgrid-scale model for large-eddy simulation of planetary boundary-layer flows. <i>Boundary-Layer Meteorology</i> , 1994, 71, 247-276.	2.3	427
7	Eddy Diffusivity and Countergradient Transport in the Convective Atmospheric Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1690-1698.	1.7	329
8	Structure of the Entrainment Zone Capping the Convective Atmospheric Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 3042-3064.	1.7	305
9	Evaluation of Turbulent Transport and Dissipation Closures in Second-Order Modeling. <i>Journals of the Atmospheric Sciences</i> , 1989, 46, 2311-2330.	1.7	289
10	Spectral Analysis of Large-Eddy Simulations of the Convective Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 3573-3587.	1.7	270
11	Large-Eddy Simulations of Strongly Precipitating, Shallow, Stratocumulus-Topped Boundary Layers. <i>Journals of the Atmospheric Sciences</i> , 1998, 55, 3616-3638.	1.7	229
12	Simulation of turbulent flow over idealized water waves. <i>Journal of Fluid Mechanics</i> , 2000, 404, 47-85.	3.4	217
13	The Influence of Idealized Heterogeneity on Wet and Dry Planetary Boundary Layers Coupled to the Land Surface. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 2078-2097.	1.7	216
14	Large-Eddy Simulations of a Drizzling, Stratocumulus-Topped Marine Boundary Layer. <i>Monthly Weather Review</i> , 2009, 137, 1083-1110.	1.4	208
15	Statistics of Conservative Scalars in the Convective Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 3161-3169.	1.7	189
16	A grid nesting method for large-eddy simulation of planetary boundary-layer flows. <i>Boundary-Layer Meteorology</i> , 1996, 80, 167-202.	2.3	161
17	Large-Eddy Simulation Of The Stably Stratified Planetary Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2000, 95, 1-30.	2.3	156
18	Large-Eddy Simulations of Radiatively Driven Convection: Sensitivities to the Representation of Small Scales. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 3963-3984.	1.7	155

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19	Vertical-Velocity Skewness in the Buoyancy-Driven Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 1149-1162.	1.7	154
20	Turbulent Statistics of Neutrally Stratified Flow Within and Above a Sparse Forest from Large-Eddy Simulation and Field Observations. <i>Boundary-Layer Meteorology</i> , 1998, 88, 363-397.	2.3	138
21	The Use of Large-Eddy Simulations in Lagrangian Particle Dispersion Models. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 2877-2887.	1.7	128
22	A Second-Order Bulk Boundary-Layer Model. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 1903-1923.	1.7	121
23	Structure of subfilter-scale fluxes in the atmospheric surface layer with application to large-eddy simulation modelling. <i>Journal of Fluid Mechanics</i> , 2003, 482, 101-139.	3.4	117
24	An evaluation of neutral and convective planetary boundary-layer parameterizations relative to large eddy simulations. <i>Boundary-Layer Meteorology</i> , 1996, 79, 131-175.	2.3	115
25	Observations and numerical simulations of the diurnal cycle of the EUROCS stratocumulus case. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004, 130, 3269-3296.	2.7	113
26	Large-Eddy Simulation of a Stratus-Topped Boundary Layer. Part I: Structure and Budgets. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 2886-2900.	1.7	109
27	Parameterizing turbulent diffusion through the joint probability density. <i>Boundary-Layer Meteorology</i> , 1992, 60, 1-13.	2.3	99
28	Large-Eddy Simulation of Maritime Deep Tropical Convection. <i>Journal of Advances in Modeling Earth Systems</i> , 2009, 1, .	3.8	95
29	An Analysis of Closures for Pressure-Scalar Covariances in the Convective Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1986, 43, 2499-2513.	1.7	93
30	Entrainment Rate, Cloud Fraction, and Liquid Water Path of PBL Stratocumulus Clouds. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 3627-3643.	1.7	83
31	The Effects of Nonhomogeneous Surface Fluxes on the Convective Boundary Layer: A Case Study Using Large-Eddy Simulation. <i>Journals of the Atmospheric Sciences</i> , 1990, 47, 1721-1741.	1.7	67
32	Direct numerical simulation of wind-wave generation processes. <i>Journal of Fluid Mechanics</i> , 2008, 616, 1-30.	3.4	66
33	An Extension of the Mellor-Yamada Model to the Terra Incognita Zone for Dry Convective Mixed Layers in the Free Convection Regime. <i>Boundary-Layer Meteorology</i> , 2015, 157, 23-43.	2.3	65
34	Large-Eddy Simulation of the Daytime Boundary Layer in an Idealized Valley Using the Weather Research and Forecasting Numerical Model. <i>Boundary-Layer Meteorology</i> , 2010, 137, 49-75.	2.3	61
35	Entrainment Processes in the Convective Boundary Layer with Varying Wind Shear. <i>Boundary-Layer Meteorology</i> , 2003, 108, 221-245.	2.3	57
36	Including Radiative Effects in an Entrainment Rate Formula for Buoyancy-Driven PBLs. <i>Journals of the Atmospheric Sciences</i> , 1999, 56, 1031-1049.	1.7	55

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37	Single-Point Closures in a Neutrally Stratified Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 3366-3379.	1.7	54
38	Plume Fluxes in Clear and Cloudy Convective Boundary Layers. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1746-1757.	1.7	45
39	The effect of surface roughness on flow structures in a neutrally stratified planetary boundary layer flow. <i>Physics of Fluids</i> , 1997, 9, 3235-3249.	4.0	45
40	Plume Budgets in Clear and Cloudy Convective Boundary Layers. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 1758-1770.	1.7	43
41	Physical Processes within the Nocturnal Stratus-topped Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1992, 49, 2384-2401.	1.7	43
42	A Numerical Study of a Marine Subtropical Stratus Cloud Layer and its Stability. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 2661-2676.	1.7	33
43	Composite Structure of Plumes in Stratus-topped Boundary Layers. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 2280-2291.	1.7	33
44	Problems in Simulating the Stratocumulus-Topped Boundary Layer with a Third-Order Closure Model. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 1588-1600.	1.7	32
45	Waves in the Overlying inversion of the Convective Boundary Layer. <i>Journals of the Atmospheric Sciences</i> , 1987, 44, 1801-1808.	1.7	31
46	A numerical study on the evolution and structure of a stress-driven free-surface turbulent shear flow. <i>Journal of Fluid Mechanics</i> , 2005, 545, 163.	3.4	31
47	Numerical Investigations of the Roles of Radiative and Evaporative Feedbacks in Stratocumulus Entrainment and Breakup. <i>Journals of the Atmospheric Sciences</i> , 1995, 52, 2869-2883.	1.7	27
48	Statistical Variability of Dispersion in the Convective Boundary Layer: Ensembles of Simulations and Observations. <i>Boundary-Layer Meteorology</i> , 2012, 145, 185-210.	2.3	25
49	Lagrangian Particle Dispersion Modeling of the Fumigation Process Using Large-Eddy Simulation. <i>Journals of the Atmospheric Sciences</i> , 2005, 62, 1932-1946.	1.7	23
50	An Observational Study of Wind Profiles in the Baroclinic Convective Mixed Layer. <i>Boundary-Layer Meteorology</i> , 1999, 90, 47-82.	2.3	21
51	The Tropical Marine Boundary Layer Under a Deep Convection System: a Large-Eddy Simulation Study. <i>Journal of Advances in Modeling Earth Systems</i> , 2009, 1, .	3.8	20
52	A Closure for Updraft-Downdraft Representation of Subgrid-Scale Fluxes in Cloud-Resolving Models. <i>Monthly Weather Review</i> , 2014, 142, 703-715.	1.4	18
53	Wind-Tunnel Experiment on Logarithmic-Layer Turbulence under the Influence of Overlying Detached Eddies. <i>Boundary-Layer Meteorology</i> , 2010, 134, 269-283.	2.3	14
54	A method to determine the amounts of cloud-top radiative and evaporative cooling in a stratocumulus-topped boundary layer. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1997, 123, 2187-2213.	2.7	11

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55	Representation of Boundary Layer Moisture Transport in Cloud-Resolving Models. Monthly Weather Review, 2012, 140, 3682-3698.	1.4	10
56	Turbulent Fluxes and Coherent Structures in Marine Boundary Layers: Investigations by Large-Eddy Simulation. Atmospheric and Oceanographic Sciences Library, 1999, , 507-538.	0.1	10
57	Large-eddy simulations of cloud-topped mixed layers. , 2004, , 95-114.		5
58	Atmospheric planetary boundary-layer research in the U.S.: 1991-1994. Reviews of Geophysics, 1995, 33, 923-931.	23.0	3
59	Representing the Stratocumulus-Topped Boundary Layer in GCMs. International Geophysics, 2000, , 577-604.	0.6	3
60	Numerical Simulation of Atmospheric Turbulence for Assessment of Wind Turbine. Journal of Fluid Science and Technology, 2011, 6, 342-356.	0.6	3
61	Turbulence Interaction with Atmospheric Physical Processes. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 15-24.	0.3	2
62	Comparison of a computer-simulated stratus-topped boundary layer with aircraft observations. Boundary-Layer Meteorology, 1993, 65, 29-53.	2.3	1
63	Comment on "Fumigation of pollutants in and above the entrainment zone into a growing convective boundary layer: A large-eddy simulation". Atmospheric Environment, 2007, 41, 7679-7682.	4.1	1
64	A Large Eddy Simulation Model for the Stratus-Topped Boundary Layer. , 1986, , 291-303.		0