

Marc B Parlange

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71
papers

4,123
citations

34
h-index

64
g-index

74
ext. papers

4,619
ext. citations

4.7
avg, IF

5.33
L-index

#	Paper	IF	Citations
71	A Local Similarity Function for Katabatic Flows Derived From Field Observations Over Steep- and Shallow-Angled Slopes. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095479	4.9	0
70	Sweeping Effects Modify Taylor's Frozen Turbulence Hypothesis for Scalars in the Roughness Sublayer. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093746	4.9	1
69	Scrambling and Reorientation of Classical Atmospheric Boundary Layer Turbulence in Hurricane Winds. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091695	4.9	0
68	A comparison of near-surface potential temperature variance budgets for unstable atmospheric flows with contrasting vegetation cover flat surfaces and a gentle slope. <i>Environmental Fluid Mechanics</i> , 2020 , 20, 1251-1279	2.2	2
67	Volume Averaging for Urban Canopies. <i>Boundary-Layer Meteorology</i> , 2019 , 173, 349-372	3.4	9
66	Preferential Deposition of Snow and Dust Over Hills: Governing Processes and Relevant Scales. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7951-7974	4.4	4
65	Signatures of Air-Wave Interactions Over a Large Lake. <i>Boundary-Layer Meteorology</i> , 2018 , 167, 445-468	3.4	15
64	Modulation of Mean Wind and Turbulence in the Atmospheric Boundary Layer by Baroclinicity. <i>Journals of the Atmospheric Sciences</i> , 2018 , 75, 3797-3821	2.1	9
63	Katabatic Flow: A Closed-Form Solution with Spatially-Varying Eddy Diffusivities. <i>Boundary-Layer Meteorology</i> , 2017 , 162, 307-317	3.4	10
62	Direct numerical simulation of turbulent slope flows up to Grashof number. <i>Journal of Fluid Mechanics</i> , 2017 , 829, 589-620	3.7	8
61	Perturbations to the Spatial and Temporal Characteristics of the Diurnally-Varying Atmospheric Boundary Layer Due to an Extensive Wind Farm. <i>Boundary-Layer Meteorology</i> , 2017 , 162, 255-282	3.4	24
60	Buoyant Turbulent Kinetic Energy Production in Steep-Slope Katabatic Flow. <i>Boundary-Layer Meteorology</i> , 2016 , 161, 405-416	3.4	25
59	Adapting Tilt Corrections and the Governing Flow Equations for Steep, Fully Three-Dimensional, Mountainous Terrain. <i>Boundary-Layer Meteorology</i> , 2016 , 159, 539-565	3.4	32
58	Field study on drainage densities and rescaled width functions in a high-altitude alpine catchment. <i>Hydrological Processes</i> , 2016 , 30, 2138-2152	3.3	7
57	On the variability of the Priestley-Taylor coefficient over water bodies. <i>Water Resources Research</i> , 2016 , 52, 150-163	5.4	29
56	Spatial Characteristics of Roughness Sublayer Mean Flow and Turbulence Over a Realistic Urban Surface. <i>Boundary-Layer Meteorology</i> , 2016 , 160, 425-452	3.4	70
55	Wind turbines and water in irrigated areas. <i>Agricultural Water Management</i> , 2015 , 152, 299-300	5.9	2

54	Controls on the diurnal streamflow cycles in two subbasins of an alpine headwater catchment. <i>Water Resources Research</i> , 2015 , 51, 3403-3418	5-4	28
53	Suppressed convective rainfall by agricultural expansion in southeastern Burkina Faso. <i>Water Resources Research</i> , 2015 , 51, 5521-5530	5-4	7
52	Effects of the water retention curve on evaporation from arid soils. <i>Geophysical Research Letters</i> , 2014 , 41, 3110-3116	4-9	19
51	Modelling Small-Scale Drifting Snow with a Lagrangian Stochastic Model Based on Large-Eddy Simulations. <i>Boundary-Layer Meteorology</i> , 2014 , 153, 117-139	3-4	31
50	Momentum balance of katabatic flow on steep slopes covered with short vegetation. <i>Geophysical Research Letters</i> , 2014 , 41, 4761-4768	4-9	23
49	Large Wind Farms and the Scalar Flux over an Heterogeneously Rough Land Surface. <i>Boundary-Layer Meteorology</i> , 2014 , 153, 471-495	3-4	14
48	Flow during the evening transition over steep Alpine slopes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013 , 139, 607-624	6-4	60
47	Geomorphic signatures on Brutsaert base flow recession analysis. <i>Water Resources Research</i> , 2013 , 49, 5462-5472	5-4	54
46	Flow over Hills: A Large-Eddy Simulation of the Bolund Case. <i>Boundary-Layer Meteorology</i> , 2013 , 148, 177-194	3-4	51
45	Evaporation from a shallow water table: Diurnal dynamics of water and heat at the surface of drying sand. <i>Water Resources Research</i> , 2013 , 49, 4022-4034	5-4	40
44	Similarity Scaling Over a Steep Alpine Slope. <i>Boundary-Layer Meteorology</i> , 2013 , 147, 401-419	3-4	50
43	Are atmospheric surface layer flows ergodic?. <i>Geophysical Research Letters</i> , 2013 , 40, 3342-3346	4-9	6
42	Coherent structures and the k^{-1} spectral behaviour. <i>Physics of Fluids</i> , 2013 , 25, 125107	4-4	25
41	Could electrical conductivity replace water level in rating curves for alpine streams?. <i>Water Resources Research</i> , 2013 , 49, 343-351	5-4	18
40	Ecohydrology: a fast moving field. <i>Ecohydrology</i> , 2012 , 5, 519-519	2-5	
39	Carbon monoxide as a tracer of gas transport in snow and other natural porous media. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4-9	11
38	Evapotranspiration: A process driving mass transport and energy exchange in the soil-plant-atmosphere-climate system. <i>Reviews of Geophysics</i> , 2012 , 50,	23-1	247
37	On the use of spatially discrete data to compute energy and mass balance. <i>Water Resources Research</i> , 2012 , 48,	5-4	3

36	The Effect of Scale on the Applicability of Taylor's Frozen Turbulence Hypothesis in the Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2012 , 143, 379-391	3-4	47
35	Heated Optical Fiber for Distributed Soil-Moisture Measurements: A Lysimeter Experiment. <i>Vadose Zone Journal</i> , 2012 , 11, vzj2011.0199	2-7	59
34	Evolution of superficial lake water temperature profile under diurnal radiative forcing. <i>Water Resources Research</i> , 2011 , 47,	5-4	33
33	Hydrologic response of an alpine watershed: Application of a meteorological wireless sensor network to understand streamflow generation. <i>Water Resources Research</i> , 2011 , 47,	5-4	36
32	Towards oscillation-free implementation of the immersed boundary method with spectral-like methods. <i>Journal of Computational Physics</i> , 2011 , 230, 8179-8191	4-1	22
31	A Simple Model for the Afternoon and Early Evening Decay of Convective Turbulence Over Different Land Surfaces. <i>Boundary-Layer Meteorology</i> , 2011 , 141, 301-324	3-4	52
30	Large eddy simulation study of scalar transport in fully developed wind-turbine array boundary layers. <i>Physics of Fluids</i> , 2011 , 23, 126603	4-4	124
29	Field study of the dynamics and modelling of subgrid-scale turbulence in a stable atmospheric surface layer over a glacier. <i>Journal of Fluid Mechanics</i> , 2010 , 665, 480-515	3-7	53
28	Geometric Alignments of the Subgrid-Scale Force in the Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2009 , 132, 1-9	3-4	9
27	The Effects of Building Representation and Clustering in Large-Eddy Simulations of Flows in Urban Canopies. <i>Boundary-Layer Meteorology</i> , 2009 , 132, 415-436	3-4	61
26	Estimation of urban sensible heat flux using a dense wireless network of observations. <i>Environmental Fluid Mechanics</i> , 2009 , 9, 635-653	2-2	43
25	Estimation of wet surface evaporation from sensible heat flux measurements. <i>Water Resources Research</i> , 2009 , 45,	5-4	24
24	Albedo effect on radiative errors in air temperature measurements. <i>Water Resources Research</i> , 2009 , 45,	5-4	67
23	Influence of sediment settling velocity on mechanistic soil erosion modeling. <i>Water Resources Research</i> , 2008 , 44,	5-4	31
22	Scale dependence of subgrid-scale model coefficients: An a priori study. <i>Physics of Fluids</i> , 2008 , 20, 115106	4-1	37
21	Subgrid-Scale Dynamics of Water Vapour, Heat, and Momentum over a Lake. <i>Boundary-Layer Meteorology</i> , 2008 , 128, 205-228	3-4	39
20	A Hybrid Spectral/Finite-Volume Algorithm for Large-Eddy Simulation of Scalars in the Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2008 , 128, 473-484	3-4	36
19	Turbulent kinetic energy budgets in a model canopy: comparisons between LES and wind-tunnel experiments. <i>Environmental Fluid Mechanics</i> , 2008 , 8, 73-95	2-2	36

18	Limitation of the transport capacity approach in sediment transport modeling. <i>Water Resources Research</i> , 2007 , 43,	5.4	27
17	A comparative quadrant analysis of turbulence in a plant canopy. <i>Water Resources Research</i> , 2007 , 43,	5.4	54
16	Modeling turbulent flow over fractal trees with renormalized numerical simulation. <i>Journal of Computational Physics</i> , 2007 , 225, 427-448	4.1	99
15	Large-eddy simulation of plant canopy flows using plant-scale representation. <i>Boundary-Layer Meteorology</i> , 2007 , 124, 183-203	3.4	59
14	Concentration profiles of particles settling in the neutral and stratified atmospheric boundary layer. <i>Boundary-Layer Meteorology</i> , 2007 , 125, 25-38	3.4	17
13	The Local Structure of Atmospheric Turbulence and Its Effect on the Smagorinsky Model for Large Eddy Simulation. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 1941-1958	2.1	16
12	Modeling flow around bluff bodies and predicting urban dispersion using large eddy simulation. <i>Environmental Science & Technology</i> , 2006 , 40, 2653-62	10.3	140
11	Numerical study of dynamic Smagorinsky models in large-eddy simulation of the atmospheric boundary layer: Validation in stable and unstable conditions. <i>Water Resources Research</i> , 2006 , 42,	5.4	49
10	Distributed fiber-optic temperature sensing for hydrologic systems. <i>Water Resources Research</i> , 2006 , 42,	5.4	384
9	Fiber optics opens window on stream dynamics. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	198
8	Pathology of Monin-Obukhov similarity in the stable boundary layer. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a-n/a		38
7	A scale-dependent Lagrangian dynamic model for large eddy simulation of complex turbulent flows. <i>Physics of Fluids</i> , 2005 , 17, 025105	4.4	410
6	On Monin-Obukhov Similarity In The Stable Atmospheric Boundary Layer. <i>Boundary-Layer Meteorology</i> , 2001 , 99, 225-248	3.4	168
5	A scale-dependent dynamic model for large-eddy simulation: application to a neutral atmospheric boundary layer. <i>Journal of Fluid Mechanics</i> , 2000 , 415, 261-284	3.7	430
4	Surface length scales and shear stress: Implications for land-atmosphere interaction over complex terrain. <i>Water Resources Research</i> , 1999 , 35, 2121-2132	5.4	177
3	NDVI relationship to monthly evaporation. <i>Geophysical Research Letters</i> , 1998 , 25, 1753-1756	4.9	34
2	The random sweeping decorrelation hypothesis in stratified turbulent flows. <i>Fluid Dynamics Research</i> , 1995 , 16, 275-295	1.2	13
1	Regional scale evaporation and the atmospheric boundary layer. <i>Reviews of Geophysics</i> , 1995 , 33, 99	23.1	65

