

Jacob Berg

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,160
citations

471061

17
h-index

552369

26
g-index

34
all docs

34
docs citations

34
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	The Role of Pair Dispersion in Turbulent Flow. <i>Science</i> , 2006, 311, 835-838.	6.0	175
2	Universal Intermittent Properties of Particle Trajectories in Highly Turbulent Flows. <i>Physical Review Letters</i> , 2008, 100, 254504.	2.9	145
3	The Bolund Experiment, Part II: Blind Comparison of Microscale Flow Models. <i>Boundary-Layer Meteorology</i> , 2011, 141, 245-271.	1.2	139
4	The Bolund Experiment, Part I: Flow Over a Steep, Three-Dimensional Hill. <i>Boundary-Layer Meteorology</i> , 2011, 141, 219.	1.2	133
5	Backwards and forwards relative dispersion in turbulent flow: An experimental investigation. <i>Physical Review E</i> , 2006, 74, 016304.	0.8	68
6	Bathymetry impacts on water exchange modelling through the Danish Straits. <i>Journal of Marine Systems</i> , 2007, 65, 450-459.	0.9	67
7	From wind to loads: wind turbine site-specific load estimation with surrogate models trained on high-fidelity load databases. <i>Wind Energy Science</i> , 2018, 3, 767-790.	1.2	66
8	For wind turbines in complex terrain, the devil is in the detail. <i>Environmental Research Letters</i> , 2017, 12, 094020.	2.2	48
9	Lagrangian multi-particle statistics. <i>Journal of Turbulence</i> , 2007, 8, N45.	0.5	43
10	Gaussian vs non-Gaussian turbulence: impact on wind turbine loads. <i>Wind Energy</i> , 2016, 19, 1975-1989.	1.9	39
11	Variations of the Wake Height over the Bolund Escarpment Measured by a Scanning Lidar. <i>Boundary-Layer Meteorology</i> , 2016, 159, 147-159.	1.2	26
12	On the structure of acceleration in turbulence. <i>Physica D: Nonlinear Phenomena</i> , 2012, 241, 208-215.	1.3	24
13	Lidar-Observed Stress Vectors and Veer in the Atmospheric Boundary Layer. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 1961-1969.	0.5	21
14	Addressing Spatial Variability of Surface-Layer Wind with Long-Range WindScanners. <i>Journal of Atmospheric and Oceanic Technology</i> , 2015, 32, 518-527.	0.5	21
15	Wind climate from the regional climate model REMO. <i>Wind Energy</i> , 2010, 13, 279-296.	1.9	20
16	Comparison of OpenFOAM and EllipSys3D for neutral atmospheric flow over complex terrain. <i>Wind Energy Science</i> , 2016, 1, 55-70.	1.2	20
17	Experimental studies of occupation and transit times in turbulent flows. <i>Physics of Fluids</i> , 2005, 17, 035111.	1.6	17
18	Experimental investigation of Lagrangian structure functions in turbulence. <i>Physical Review E</i> , 2009, 80, 026316.	0.8	16

#	ARTICLE	IF	CITATIONS
19	A universal wind profile for the inversion-capped neutral atmospheric boundary layer. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 982-992.	1.0	16
20	A Loss-of-Function Screen for Phosphatases that Regulate Neurite Outgrowth Identifies PTPN12 as a Negative Regulator of TrkB Tyrosine Phosphorylation. PLoS ONE, 2013, 8, e65371.	1.1	13
21	Effect of Reynolds number and inflow parameters on mean and turbulent flow over complex topography. Wind Energy Science, 2016, 1, 237-254.	1.2	13
22	Self-similar two-particle separation model. Physics of Fluids, 2007, 19, 045110.	1.6	12
23	Large-Eddy Simulation of Conditionally Neutral Boundary Layers: A Mesh Resolution Sensitivity Study. Journals of the Atmospheric Sciences, 2020, 77, 1969-1991.	0.6	7
24	Atmospheric stability and complex terrain: comparing measurements and CFD. Journal of Physics: Conference Series, 2014, 555, 012060.	0.3	3
25	Laser scanning of a recirculation zone on the Bolund escarpment. Journal of Physics: Conference Series, 2014, 555, 012066.	0.3	3
26	Challenges in using scanning lidars to estimate wind resources in complex terrain. Journal of Physics: Conference Series, 2018, 1037, 072017.	0.3	3
27	The Correlation Between Velocity and Acceleration in Turbulence. , 2007, , 95-98.		1
28	Turbulent Pair Dispersion: A PTV Experiment. , 2007, , 213-216.		1
29	Lagrangian multi-particle statistics. , 2007, , 257-269.		0
30	Over-prediction of energy back-scatter due to misaligned eigen-frame of SGS tensor. , 2007, , 624-626.		0