

Rob Stoll

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

947
citations

567281

15
h-index

454955

30
g-index

31
all docs

31
docs citations

31
times ranked

801
citing authors

#	ARTICLE	IF	CITATIONS
1	Errors in the Estimation of Leaf Area Density From Aerial LiDAR Data: Influence of Statistical Sampling and Heterogeneity. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	4
2	Development and evaluation of an isolated-tree flow model for neutral-stability conditions. Urban Climate, 2022, 42, 101083.	5.7	8
3	QES-Fire: a dynamically coupled fast-response wildfire model. International Journal of Wildland Fire, 2022, 31, 306-325.	2.4	6
4	Momentum and Turbulent Transport in Sparse, Organized Vegetative Canopies. Boundary-Layer Meteorology, 2022, 184, 1-24.	2.3	5
5	Quantifying Turbulence Heterogeneity in a Vineyard Using Eddy-Covariance and Scintillometer Measurements. Boundary-Layer Meteorology, 2022, 184, 479-504.	2.3	6
6	Utilizing dynamic parallelism in CUDA to accelerate a 3D red-black successive over relaxation wind-field solver. Environmental Modelling and Software, 2021, 137, 104958.	4.5	16
7	Adaptation and validation of a voxel based energy transport model for conifer species. Urban Climate, 2021, 39, 100967.	5.7	0
8	A numerical study of the impact of vegetation on mean and turbulence fields in a European-city neighbourhood. Building and Environment, 2020, 186, 107293.	6.9	17
9	Large-Eddy Simulation of the Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2020, 177, 541-581.	2.3	63
10	Quantifying effects of the built environment on solar irradiance availability at building rooftops. Journal of Building Performance Simulation, 2020, 13, 195-208.	2.0	4
11	Comparative metrics for computational approaches in non-uniform street-canyon flows. Building and Environment, 2019, 158, 16-27.	6.9	20
12	A Theoretically Consistent Framework for Modelling Lagrangian Particle Deposition in Plant Canopies. Boundary-Layer Meteorology, 2018, 167, 509-520.	2.3	6
13	Evaluation of the QUIC-URB wind solver and QESRadiant radiation-transfer model using a dense array of urban meteorological observations. Urban Climate, 2018, 24, 657-674.	5.7	8
14	Heavy particle transport in a trellised agricultural canopy during non-row-aligned winds. Agricultural and Forest Meteorology, 2018, 256-257, 125-136.	4.8	7
15	Comprehensive Evaluation of Fast-Response, Reynolds-Averaged Navier–Stokes, and Large-Eddy Simulation Methods Against High-Spatial-Resolution Wind-Tunnel Data in Step-Down Street Canyons. Boundary-Layer Meteorology, 2017, 164, 217-247.	2.3	17
16	Improving measurement technology for the design of sustainable cities. Measurement Science and Technology, 2017, 28, 092001.	2.6	11
17	Mean and Turbulent Flow Statistics in a Trellised Agricultural Canopy. Boundary-Layer Meteorology, 2017, 165, 113-143.	2.3	16
18	Scalable Tools for Generating Synthetic Isotropic Turbulence with Arbitrary Spectra. AIAA Journal, 2017, 55, 327-331.	2.6	57

#	ARTICLE	IF	CITATIONS
19	The Ebb and Flow of Airborne Pathogens: Monitoring and Use in Disease Management Decisions. <i>Phytopathology</i> , 2016, 106, 420-431.	2.2	54
20	A new three-dimensional energy balance model for complex plant canopy geometries: Model development and improved validation strategies. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 146-160.	4.8	38
21	Experimental validation of a long-distance transport model for plant pathogens: Application to <i>Fusarium graminearum</i> . <i>Agricultural and Forest Meteorology</i> , 2015, 203, 118-130.	4.8	30
22	An experimental study of momentum and heavy particle transport in a trellised agricultural canopy. <i>Agricultural and Forest Meteorology</i> , 2015, 211-212, 100-114.	4.8	14
23	Effect of vegetative canopy architecture on vertical transport of massless particles. <i>Atmospheric Environment</i> , 2014, 95, 480-489.	4.1	34
24	The accuracy of the compressible Reynolds equation for predicting the local pressure in gas-lubricated textured parallel slider bearings. <i>Tribology International</i> , 2014, 72, 83-89.	5.9	26
25	Surface Heterogeneity Effects on Regional-Scale Fluxes in the Stable Boundary Layer: Aerodynamic Roughness Length Transitions. <i>Boundary-Layer Meteorology</i> , 2013, 149, 277-301.	2.3	15
26	Turbulence in Sparse, Organized Vegetative Canopies: A Large-Eddy Simulation Study. <i>Boundary-Layer Meteorology</i> , 2013, 147, 369-400.	2.3	72
27	Surface Heterogeneity Effects on Regional-Scale Fluxes in Stable Boundary Layers: Surface Temperature Transitions. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 412-431.	1.7	50
28	Evaluation of dynamic subgrid-scale models in large-eddy simulations of neutral turbulent flow over a two-dimensional sinusoidal hill. <i>Atmospheric Environment</i> , 2007, 41, 2719-2728.	4.1	53
29	Large-Eddy Simulation of the Stable Atmospheric Boundary Layer using Dynamic Models with Different Averaging Schemes. <i>Boundary-Layer Meteorology</i> , 2007, 126, 1-28.	2.3	89
30	Dynamic subgrid-scale models for momentum and scalar fluxes in large-eddy simulations of neutrally stratified atmospheric boundary layers over heterogeneous terrain. <i>Water Resources Research</i> , 2006, 42, .	4.2	137
31	Effect of Roughness on Surface Boundary Conditions for Large-Eddy Simulation. <i>Boundary-Layer Meteorology</i> , 2006, 118, 169-187.	2.3	64