

Roni Avissar

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64
papers

5,994
citations

37
h-index

67
g-index

67
ext. papers

6,549
ext. citations

6.7
avg, IF

5.57
L-index

#	Paper	IF	Citations
64	Trading water for carbon with biological carbon sequestration. <i>Science</i> , 2005 , 310, 1944-7	33.3	851
63	Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. <i>Global Change Biology</i> , 1998 , 4, 461-475	11.4	488
62	Mechanisms of long-distance dispersal of seeds by wind. <i>Nature</i> , 2002 , 418, 409-13	50.4	476
61	The local and global effects of Amazon deforestation. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 55-1		285
60	Protecting climate with forests. <i>Environmental Research Letters</i> , 2008 , 3, 044006	6.2	264
59	An Evaluation of the Scale at which Ground-Surface Heat Flux Patchiness Affects the Convective Boundary Layer Using Large-Eddy Simulations. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 2666-2689 ^{2.1}		218
58	Impact of Land-Surface Moisture Variability on Local Shallow Convective Cumulus and Precipitation in Large-Scale Models. <i>Journal of Applied Meteorology and Climatology</i> , 1994 , 33, 1382-1401		189
57	Representation of heterogeneity effects in Earth system modeling: Experience from land surface modeling. <i>Reviews of Geophysics</i> , 1997 , 35, 413-437	23.1	169
56	Global Hydroclimatological Teleconnections Resulting from Tropical Deforestation. <i>Journal of Hydrometeorology</i> , 2005 , 6, 134-145	3.7	163
55	The climatic impacts of land surface change and carbon management, and the implications for climate-change mitigation policy. <i>Climate Policy</i> , 2003 , 3, 149-157	5.3	151
54	Three-dimensional numerical study of shallow convective clouds and precipitation induced by land surface forcing. <i>Journal of Geophysical Research</i> , 1996 , 101, 7499-7518		145
53	Impact of land use/land cover change on regional hydrometeorology in Amazonia. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 4-1		139
52	Atmospheric Disturbances Caused by Human Modification of the Landscape. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 269-281	6.1	139
51	The Impact of Spatial Variability of Land-Surface Characteristics on Land-Surface Heat Fluxes. <i>Journal of Climate</i> , 1994 , 7, 527-537	4.4	118
50	Conceptual aspects of a statistical-dynamical approach to represent landscape subgrid-scale heterogeneities in atmospheric models. <i>Journal of Geophysical Research</i> , 1992 , 97, 2729		117
49	Finite element tree crown hydrodynamics model (FETCH) using porous media flow within branching elements: A new representation of tree hydrodynamics. <i>Water Resources Research</i> , 2005 , 41,	5.4	110
48	Effects of canopy heterogeneity, seed abscission and inertia on wind-driven dispersal kernels of tree seeds. <i>Journal of Ecology</i> , 2008 , 96, 569-580	6	108

47	The Impact of Land-Surface Wetness Heterogeneity on Mesoscale Heat Fluxes. <i>Journal of Applied Meteorology and Climatology</i> , 1994 , 33, 1323-1340		105
46	What Controls Evapotranspiration in the Amazon Basin?. <i>Journal of Hydrometeorology</i> , 2007 , 8, 380-395	3.7	103
45	Regional Impacts of Future Land-Cover Changes on the Amazon Basin Wet-Season Climate. <i>Journal of Climate</i> , 2008 , 21, 1153-1170	4.4	98
44	The representation of continental surface processes in atmospheric models. <i>Reviews of Geophysics</i> , 1990 , 28, 35	23.1	90
43	Exploring the Effects of Microscale Structural Heterogeneity of Forest Canopies Using Large-Eddy Simulations. <i>Boundary-Layer Meteorology</i> , 2009 , 132, 351-382	3.4	87
42	Long-distance biological transport processes through the air: can nature's complexity be unfolded in silico?. <i>Diversity and Distributions</i> , 2005 , 11, 131-137	5	86
41	The Regional Evapotranspiration of the Amazon. <i>Journal of Hydrometeorology</i> , 2004 , 5, 100-109	3.7	74
40	The Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA): Insights and future research needs. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 54-1		74
39	Development and Analysis of Prognostic Equations for Mesoscale Kinetic Energy and Mesoscale (Subgrid Scale) Fluxes for Large-Scale Atmospheric Models. <i>Journals of the Atmospheric Sciences</i> , 1993 , 50, 3751-3774	2.1	71
38	Effects of Tropical Deforestation on Global Hydroclimate: A Multimodel Ensemble Analysis. <i>Journal of Climate</i> , 2009 , 22, 1124-1141	4.4	63
37	Scales of response of the convective boundary layer to land-surface heterogeneity. <i>Geophysical Research Letters</i> , 2000 , 27, 533-536	4.9	61
36	The Importance of Mesoscale Circulations Generated by Subgrid-Scale Landscape Heterogeneities in General Circulation Models. <i>Journal of Climate</i> , 1995 , 8, 191-205	4.4	61
35	Effects of Deforestation on Spatiotemporal Distributions of Precipitation in South America. <i>Journal of Climate</i> , 2011 , 24, 2147-2163	4.4	60
34	Soil structure is an important omission in Earth System Models. <i>Nature Communications</i> , 2020 , 11, 522	17.4	57
33	A Study of Persistence in the Land-Atmosphere System Using a General Circulation Model and Observations. <i>Journal of Climate</i> , 1999 , 12, 2139-2153	4.4	56
32	Using Similarity Theory to Parameterize Mesoscale Heat Fluxes Generated by Subgrid-Scale Landscape Discontinuities in GCMs. <i>Journal of Climate</i> , 1995 , 8, 932-951	4.4	47
31	Simulated Changes in Northwest U.S. Climate in Response to Amazon Deforestation*. <i>Journal of Climate</i> , 2013 , 26, 9115-9136	4.4	42
30	A statistical-dynamical approach to parameterize subgrid-scale land-surface heterogeneity in climate models. <i>Surveys in Geophysics</i> , 1991 , 12, 155-178	7.6	42

29	The Hydrometeorology of a Deforested Region of the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1028-1042	3-7	40
28	A preferred scale for landscape forced mesoscale circulations?. <i>Journal of Geophysical Research</i> , 2003 , 108,		38
27	A Study of Persistence in the Land-Atmosphere System with a Fourth-Order Analytical Model. <i>Journal of Climate</i> , 1999 , 12, 2154-2168	4-4	36
26	Sensitivity of simulated mesoscale atmospheric circulations resulting from landscape heterogeneity to aspects of model configuration. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 8-1		33
25	Scaling of land-atmosphere interactions: An atmospheric modelling perspective. <i>Hydrological Processes</i> , 1995 , 9, 679-695	3-3	32
24	Timing and flight mode of departure in migrating European bee-eaters in relation to multi-scale meteorological processes. <i>Behavioral Ecology and Sociobiology</i> , 2011 , 65, 1353-1365	2-5	30
23	Preface to special issue on the Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA). <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 1-1		29
22	The local and global effects of Southeast Asian deforestation. <i>Geophysical Research Letters</i> , 2005 , 32,	4-9	27
21	The Global Energy and Water Cycle Experiment (GEWEX) Continental-Scale International Project (GCIP): An overview. <i>Journal of Geophysical Research</i> , 1996 , 101, 7139-7147		26
20	Observations of leaf stomatal conductance at the canopy scale: An atmospheric modeling perspective. <i>Boundary-Layer Meteorology</i> , 1993 , 64, 127-148	3-4	26
19	Which type of soil-vegetation-atmosphere transfer scheme is needed for general circulation models: a proposal for a higher-order scheme. <i>Journal of Hydrology</i> , 1998 , 212-213, 136-154	6	23
18	Sensitivity of the water resources of Rio Yaqui Basin, Mexico, to agriculture extensification under multiscale climate conditions. <i>Water Resources Research</i> , 2009 , 45,	5-4	21
17	A Precipitation Climatology and Dataset Intercomparison for the Western United States. <i>Journal of Hydrometeorology</i> , 2008 , 9, 825-841	3-7	20
16	Toward a parameterization of mesoscale fluxes and moist convection induced by landscape heterogeneity. <i>Journal of Geophysical Research</i> , 1999 , 104, 19515-19533		20
15	Mass conservation and atmospheric dynamics in the Regional Atmospheric Modeling System (RAMS). <i>Environmental Fluid Mechanics</i> , 2005 , 5, 109-134	2-2	19
14	Sensitivity of shallow convective precipitation induced by land surface heterogeneities to dynamical and cloud microphysical parameters. <i>Journal of Geophysical Research</i> , 1996 , 101, 7477-7497		19
13	The local and global effects of African deforestation. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4-9	18
12	Sensitivity of model-simulated summertime precipitation over the Mississippi River Basin to the spatial distribution of initial soil moisture. <i>Journal of Geophysical Research</i> , 2003 , 108,		18

11	A virtual canopy generator (V-CaGe) for modelling complex heterogeneous forest canopies at high resolution. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 566-576	3.3	17
10	The Ocean–Land–Atmosphere Model: Optimization and Evaluation of Simulated Radiative Fluxes and Precipitation. <i>Monthly Weather Review</i> , 2010 , 138, 1923-1939	2.4	15
9	Simulated Links between Deforestation and Extreme Cold Events in South America. <i>Journal of Climate</i> , 2012 , 25, 3851-3866	4.4	13
8	The Duke University Helicopter Observation Platform. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 939-954	6.1	12
7	Compensation for lateral drift due to crosswind in migrating European Bee-eaters. <i>Journal of Ornithology</i> , 2014 , 155, 745-753	1.5	11
6	An Analysis of Precipitation Variability, Persistence, and Observational Data Uncertainty in the Western United States. <i>Journal of Hydrometeorology</i> , 2008 , 9, 843-865	3.7	11
5	The impacts of the Luni-Solar oscillation on the Arctic oscillation. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	8
4	Sensitivity of Ice Storms in the Southeastern United States to Atlantic SST—Insights from a Case Study of the December 2002 Storm. <i>Monthly Weather Review</i> , 2006 , 134, 1454-1464	2.4	8
3	Teleconnections in the Earth System 2005 ,		7
2	Implications of Tropical Deforestation for Regional and Global Hydroclimate. <i>Geophysical Monograph Series</i> , 2004 , 73-83	1.1	3
1	Bridging the gap between microscale land-surface processes and land-atmosphere interactions at the scale of GCMs. <i>AIP Conference Proceedings</i> , 1992 ,	0	1