

Roni Avissar

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.

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 | Soil structure is an important omission in Earth System Models. <i>Nature Communications</i> , 2020 , 11, 522 | 17.4 | 57 |
| 63 | Compensation for lateral drift due to crosswind in migrating European Bee-eaters. <i>Journal of Ornithology</i> , 2014 , 155, 745-753 | 1.5 | 11 |
| 62 | Simulated Changes in Northwest U.S. Climate in Response to Amazon Deforestation*. <i>Journal of Climate</i> , 2013 , 26, 9115-9136 | 4.4 | 42 |
| 61 | Simulated Links between Deforestation and Extreme Cold Events in South America. <i>Journal of Climate</i> , 2012 , 25, 3851-3866 | 4.4 | 13 |
| 60 | Effects of Deforestation on Spatiotemporal Distributions of Precipitation in South America. <i>Journal of Climate</i> , 2011 , 24, 2147-2163 | 4.4 | 60 |
| 59 | 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 |
| 58 | The Ocean and Atmosphere Model: Optimization and Evaluation of Simulated Radiative Fluxes and Precipitation. <i>Monthly Weather Review</i> , 2010 , 138, 1923-1939 | 2.4 | 15 |
| 57 | Effects of Tropical Deforestation on Global Hydroclimate: A Multimodel Ensemble Analysis. <i>Journal of Climate</i> , 2009 , 22, 1124-1141 | 4.4 | 63 |
| 56 | 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 |
| 55 | 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 |
| 54 | The Duke University Helicopter Observation Platform. <i>Bulletin of the American Meteorological Society</i> , 2009 , 90, 939-954 | 6.1 | 12 |
| 53 | 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 |
| 52 | A Precipitation Climatology and Dataset Intercomparison for the Western United States. <i>Journal of Hydrometeorology</i> , 2008 , 9, 825-841 | 3.7 | 20 |
| 51 | 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 |
| 50 | 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 |
| 49 | Protecting climate with forests. <i>Environmental Research Letters</i> , 2008 , 3, 044006 | 6.2 | 264 |
| 48 | 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 |

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| 47 | What Controls Evapotranspiration in the Amazon Basin?. <i>Journal of Hydrometeorology</i> , 2007 , 8, 380-395 | 3.7 | 103 |
| 46 | 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 |
| 45 | The Hydrometeorology of a Deforested Region of the Amazon Basin. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1028-1042 | 3.7 | 40 |
| 44 | The local and global effects of African deforestation. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a | 4.9 | 18 |
| 43 | The local and global effects of Southeast Asian deforestation. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 27 |
| 42 | 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 |
| 41 | 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 |
| 40 | Teleconnections in the Earth System 2005 , | | 7 |
| 39 | Global Hydroclimatological Teleconnections Resulting from Tropical Deforestation. <i>Journal of Hydrometeorology</i> , 2005 , 6, 134-145 | 3.7 | 163 |
| 38 | 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 |
| 37 | Mass conservation and atmospheric dynamics in the Regional Atmospheric Modeling System (RAMS). <i>Environmental Fluid Mechanics</i> , 2005 , 5, 109-134 | 2.2 | 19 |
| 36 | Trading water for carbon with biological carbon sequestration. <i>Science</i> , 2005 , 310, 1944-7 | 33.3 | 851 |
| 35 | The Regional Evapotranspiration of the Amazon. <i>Journal of Hydrometeorology</i> , 2004 , 5, 100-109 | 3.7 | 74 |
| 34 | Implications of Tropical Deforestation for Regional and Global Hydroclimate. <i>Geophysical Monograph Series</i> , 2004 , 73-83 | 1.1 | 3 |
| 33 | 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 |
| 32 | A preferred scale for landscape forced mesoscale circulations?. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 38 |
| 31 | 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 |
| 30 | 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 |

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|----|--|------|-----|
| 29 | Mechanisms of long-distance dispersal of seeds by wind. <i>Nature</i> , 2002 , 418, 409-13 | 50.4 | 476 |
| 28 | 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 |
| 27 | The local and global effects of Amazon deforestation. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 55-1 | | 285 |
| 26 | 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 |
| 25 | Impact of land use/land cover change on regional hydrometeorology in Amazonia. <i>Journal of Geophysical Research</i> , 2002 , 107, LBA 4-1 | | 139 |
| 24 | Atmospheric Disturbances Caused by Human Modification of the Landscape. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 269-281 | 6.1 | 139 |
| 23 | Scales of response of the convective boundary layer to land-surface heterogeneity. <i>Geophysical Research Letters</i> , 2000 , 27, 533-536 | 4.9 | 61 |
| 22 | 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 |
| 21 | 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 |
| 20 | Toward a parameterization of mesoscale fluxes and moist convection induced by landscape heterogeneity. <i>Journal of Geophysical Research</i> , 1999 , 104, 19515-19533 | | 20 |
| 19 | Interactions between the atmosphere and terrestrial ecosystems: influence on weather and climate. <i>Global Change Biology</i> , 1998 , 4, 461-475 | 11.4 | 488 |
| 18 | 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 |
| 17 | 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 |
| 16 | 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 |
| 15 | 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 |
| 14 | 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 |
| 13 | 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 |
| 12 | 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 |

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|----|--|------|-----|
| 11 | 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 |
| 10 | Scaling of land-atmosphere interactions: An atmospheric modelling perspective. <i>Hydrological Processes</i> , 1995 , 9, 679-695 | 3.3 | 32 |
| 9 | 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 |
| 8 | The Impact of Land-Surface Wetness Heterogeneity on Mesoscale Heat Fluxes. <i>Journal of Applied Meteorology and Climatology</i> , 1994 , 33, 1323-1340 | | 105 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | 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 |
| 2 | 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 |
| 1 | The representation of continental surface processes in atmospheric models. <i>Reviews of Geophysics</i> , 1990 , 28, 35 | 23.1 | 90 |