

# Venkat Lakshmi

## List of Publications by Year in descending order

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Version: 2024-02-01

148  
papers

7,150  
citations

70961

41  
h-index

64668

79  
g-index

164  
all docs

164  
docs citations

164  
times ranked

5885  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A global 1-km downscaled SMAP soil moisture product based on thermal inertia theory. <i>Vadose Zone Journal</i> , 2022, 21, .  | 1.3  | 26        |
| 2  | Estimation of Flood Inundation and Depth During Hurricane Florence Using Sentinel-1 and UAVSAR Data. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.  | 1.4  | 1         |
| 3  | Thermal Hydraulic Disaggregation of SMAP Soil Moisture Over the Continental United States. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2022, 15, 4072-4092.                                    | 2.3  | 6         |
| 4  | Comparing Precipitation during Typhoons in the Western North Pacific Using Satellite and In Situ Observations. <i>Remote Sensing</i> , 2022, 14, 877.  | 1.8  | 3         |
| 5  | Flood Depth Estimation during Hurricane Harvey Using Sentinel-1 and UAVSAR Data. <i>Remote Sensing</i> , 2022, 14, 1450.   | 1.8  | 6         |
| 6  | Assimilation of SMAP Products for Improving Streamflow Simulations over Tropical Climate Region—Is Spatial Information More Important Than Temporal Information?. <i>Remote Sensing</i> , 2022, 14, 1607.                                    | 1.8  | 9         |
| 7  | Assessment of drought conditions over Iraqi transboundary rivers using FLDAS and satellite datasets. <i>Journal of Hydrology: Regional Studies</i> , 2022, 41, 101075.   | 1.0  | 7         |
| 8  | Doubling of annual forest carbon loss over the tropics during the early twenty-first century. <i>Nature Sustainability</i> , 2022, 5, 444-451.   | 11.5 | 47        |
| 9  | A comprehensive assessment of SM2RAIN-NWF using ASCAT and a combination of ASCAT and SMAP soil moisture products for rainfall estimation. <i>Science of the Total Environment</i> , 2022, 838, 156416.                                       | 3.9  | 4         |
| 10 | Quantifying the Economic Impact of the Grand Ethiopian Renaissance Dam on the Nile River Basin. , 2022, , .  |      | 0         |
| 11 | Simulation of carbon dioxide mineralization and its effect on fault leakage rates in the South Georgia rift basin, southeastern U.S.. <i>Heliyon</i> , 2022, 8, e09635.  | 1.4  | 7         |
| 12 | Land use, climate, and water change in the Vietnamese Mekong Delta (VMD) using earth observation and hydrological modeling. <i>Journal of Hydrology: Regional Studies</i> , 2022, 42, 101132.  | 1.0  | 7         |
| 13 | Identifying relative strengths of SMAP, SMOS-IC, and ASCAT to capture temporal variability. <i>Remote Sensing of Environment</i> , 2021, 252, 112126.  | 4.6  | 25        |
| 14 | Assessing Disaggregated SMAP Soil Moisture Products in the United States. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 2577-2592.   | 2.3  | 12        |
| 15 | Very High Spatial Resolution Downscaled SMAP Radiometer Soil Moisture in the CONUS Using VIIRS/MODIS Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2021, 14, 4946-4965.                    | 2.3  | 20        |
| 16 | Assessment and Combination of SMAP and Sentinel-1A/B-Derived Soil Moisture Estimates With Land Surface Model Outputs in the Mid-Atlantic Coastal Plain, USA. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 991-1011. | 2.7  | 8         |
| 17 | An Assessment of the Filling Process of the Grand Ethiopian Renaissance Dam and Its Impact on the Downstream Countries. <i>Remote Sensing</i> , 2021, 13, 711.   | 1.8  | 23        |
| 18 | Drought monitoring using high spatial resolution soil moisture data over Australia in 2015–2019. <i>Journal of Hydrology</i> , 2021, 594, 125960.  | 2.3  | 43        |

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|----|---|-----|-----------|
| 19 | Evaluation of Global Surface Water Temperature Data Sets for Use in Passive Remote Sensing of Soil Moisture. <i>Remote Sensing</i> , 2021, 13, 1872.  | 1.8 | 6         |
| 20 | Estimation of total water storage changes in India. <i>International Journal of Digital Earth</i> , 2021, 14, 1294-1315.  | 1.6 | 5         |
| 21 | 20 years of <i>Vadose Zone Journal</i> . <i>Vadose Zone Journal</i> , 2021, 20, e20141.   | 1.3 | 0         |
| 22 | First attempt of global-scale assimilation of subdaily scale soil moisture estimates from CYGNSS and SMAP into a land surface model. <i>Environmental Research Letters</i> , 2021, 16, 074041.  | 2.2 | 18        |
| 23 | Estimation of land-cover linkage to trends in hydrological variables of river basins in the Indian sub-continent using satellite observation and model outputs. <i>Journal of Hydrology</i> , 2021, 603, 126997.  | 2.3 | 8         |
| 24 | Land cover and vegetation carbon stock changes in Greece: A 29-year assessment based on CORINE and Landsat land cover data. <i>Science of the Total Environment</i> , 2021, 786, 147408.  | 3.9 | 17        |
| 25 | A Novel Method for Gaining New Insight on Flows Over Inundated Landscapes. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094190.   | 1.5 | 3         |
| 26 | Estimating Local-Scale Groundwater Withdrawals Using Integrated Remote Sensing Products and Deep Learning. , 2021, , .  |     | 1         |
| 27 | A Spatial Downscaling Methodology for GRACE Total Water Storage Anomalies Using GPM IMERG Precipitation Estimates. <i>Remote Sensing</i> , 2021, 13, 5149.  | 1.8 | 14        |
| 28 | Application of Soil Water Assessment Tool (SWAT) Model in Analyzing Nitrogen Transport Inside the Narmada River Basin. <i>Frontiers in Water</i> , 2021, 3, .   | 1.0 | 0         |
| 29 | The Reliability of Global Remote Sensing Evapotranspiration Products over Amazon. <i>Remote Sensing</i> , 2020, 12, 2211.   | 1.8 | 23        |
| 30 | Intermittent Channel Systems of a Low-Relief, Low-Gradient Floodplain: Comparison of Automatic Extraction Methods. <i>Water Resources Research</i> , 2020, 56, e2020WR027603.   | 1.7 | 7         |
| 31 | Groundwater Withdrawal Prediction Using Integrated Multitemporal Remote Sensing Data Sets and Machine Learning. <i>Water Resources Research</i> , 2020, 56, e2020WR028059.  | 1.7 | 40        |
| 32 | Global scale error assessments of soil moisture estimates from microwave-based active and passive satellites and land surface models over forest and mixed irrigated/dryland agriculture regions. <i>Remote Sensing of Environment</i> , 2020, 251, 112052. | 4.6 | 63        |
| 33 | Assessment of drought conditions over Vietnam using standardized precipitation evapotranspiration index, MERRA-2 re-analysis, and dynamic land cover. <i>Journal of Hydrology: Regional Studies</i> , 2020, 32, 100767.                                     | 1.0 | 17        |
| 34 | Large Uncertainty on Forest Area Change in the Early 21st Century among Widely Used Global Land Cover Datasets. <i>Remote Sensing</i> , 2020, 12, 3502.   | 1.8 | 24        |
| 35 | Evaluation and validation of a high spatial resolution satellite soil moisture product over the Continental United States. <i>Journal of Hydrology</i> , 2020, 588, 125043.   | 2.3 | 32        |
| 36 | Earth Observation and Cloud Computing in Support of Two Sustainable Development Goals for the River Nile Watershed Countries. <i>Remote Sensing</i> , 2020, 12, 1391.   | 1.8 | 18        |

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|----|---|-----|-----------|
| 37 | Very high resolution, altitude-corrected, TMPA-based monthly satellite precipitation product over the CONUS. <i>Scientific Data</i> , 2020, 7, 74.  | 2.4 | 10        |
| 38 | Adequacy of Satellite-derived Precipitation Estimate for Hydrological Modeling in Vietnam Basins. <i>Journal of Hydrology</i> , 2020, 586, 124820.  | 2.3 | 80        |
| 39 | Field evaluation of portable soil water content sensors in a sandy loam. <i>Vadose Zone Journal</i> , 2020, 19, e20033.   | 1.3 | 15        |
| 40 | Downscaling of SMAP Soil Moisture in the Lower Mekong River Basin. <i>Water (Switzerland)</i> , 2020, 12, 56.   | 1.2 | 25        |
| 41 | Mapping Land Use Land Cover Change in the Lower Mekong Basin From 1997 to 2010. <i>Frontiers in Environmental Science</i> , 2020, 8, .  | 1.5 | 45        |
| 42 | Web-based decision support system tools: The Soil and Water Assessment Tool Online visualization and analyses (SWATOnline) and NASA earth observation data downloading and reformatting tool (NASAaccess). <i>Environmental Modelling and Software</i> , 2019, 120, 104499. | 1.9 | 29        |
| 43 | Atlantic Ocean Sea Surface Temperatures and Southeast United States streamflow variability: Associations with the recent multi-decadal decline. <i>Journal of Hydrology</i> , 2019, 576, 422-429.   | 2.3 | 19        |
| 44 | Monitoring Dust Storms in Iraq Using Satellite Data. <i>Sensors</i> , 2019, 19, 3687.   | 2.1 | 15        |
| 45 | Assessment and validation of total water storage in the Chesapeake Bay watershed using GRACE. <i>Journal of Hydrology: Regional Studies</i> , 2019, 24, 100607.   | 1.0 | 9         |
| 46 | Comparison of Normalized Difference Vegetation Index Derived from Landsat, MODIS, and AVHRR for the Mesopotamian Marshes Between 2002 and 2018. <i>Remote Sensing</i> , 2019, 11, 1245.   | 1.8 | 48        |
| 47 | Evaluating hotspots for stormwater harvesting through participatory sensing. <i>Journal of Environmental Management</i> , 2019, 242, 351-361.   | 3.8 | 15        |
| 48 | Passive/active microwave soil moisture change disaggregation using SMAPVEX12 data. <i>Journal of Hydrology</i> , 2019, 574, 1085-1098.  | 2.3 | 29        |
| 49 | Vegetation greening trends in different land use types: natural variability versus human-induced impacts in Greece. <i>Environmental Earth Sciences</i> , 2019, 78, 1.  | 1.3 | 17        |
| 50 | Streamflow Forecasting Using Singular Value Decomposition and Support Vector Machine for the Upper Rio Grande River Basin. <i>Journal of the American Water Resources Association</i> , 2019, 55, 680-699.  | 1.0 | 9         |
| 51 | An in-situ data based model to downscale radiometric satellite soil moisture products in the Upper Hunter Region of NSW, Australia. <i>Journal of Hydrology</i> , 2019, 572, 820-838.   | 2.3 | 26        |
| 52 | Global Dynamics of Stored Precipitation Water in the Topsoil Layer From Satellite and Reanalysis Data. <i>Water Resources Research</i> , 2019, 55, 3328-3346.   | 1.7 | 21        |
| 53 | Assessment of the Biomass Productivity Decline in the Lower Mekong Basin. <i>Remote Sensing</i> , 2019, 11, 2796.   | 1.8 | 4         |
| 54 | Downscaling and Validation of SMAP Radiometer Soil Moisture in CONUS. , 2019, , .   |     | 1         |

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|----|--|-----|-----------|
| 55 | Evaluation of Satellite-Based Rainfall Estimates in the Lower Mekong River Basin (Southeast Asia). Remote Sensing, 2019, 11, 2709.   | 1.8 | 30        |
| 56 | Global-scale assessment and combination of SMAP with ASCAT (active) and AMSR2 (passive) soil moisture products. Remote Sensing of Environment, 2018, 204, 260-275.             | 4.6 | 147       |
| 57 | Evaluating Renewable Groundwater Stress with GRACE Data in Greece. Ground Water, 2018, 56, 501-514.  | 0.7 | 12        |
| 58 | Estimating Groundwater Abstractions at the Aquifer Scale Using GRACE Observations. Geosciences (Switzerland), 2018, 8, 419.  | 1.0 | 12        |
| 59 | Ground and satellite based observation datasets for the Lower Mekong River Basin. Data in Brief, 2018, 21, 2020-2027.  | 0.5 | 30        |
| 60 | Smop Radiometer Soil Moisture Downscaling in Conus. , 2018, , .  |     | 0         |
| 61 | A comparative study of available water in the major river basins of the world. Journal of Hydrology, 2018, 567, 510-532.   | 2.3 | 73        |
| 62 | Developing Land Use Land Cover Maps for the Lower Mekong Basin to Aid Hydrologic Modeling and Basin Planning. Remote Sensing, 2018, 10, 1910.                                  | 1.8 | 17        |
| 63 | Comparison and Bias Correction of TMPA Precipitation Products over the Lower Part of Redâ€™Thai Binh River Basin of Vietnam. Remote Sensing, 2018, 10, 1582.                   | 1.8 | 25        |
| 64 | Using Satellite Remote Sensing to Study the Impact of Climate and Anthropogenic Changes in the Mesopotamian Marshlands, Iraq. Remote Sensing, 2018, 10, 1524.                  | 1.8 | 29        |
| 65 | AMSR2 Soil Moisture Downscaling Using Temperature and Vegetation Data. Remote Sensing, 2018, 10, 1575.   | 1.8 | 38        |
| 66 | Downscaling of SMAP Soil Moisture Using Land Surface Temperature and Vegetation Data. Vadose Zone Journal, 2018, 17, 1-15.   | 1.3 | 57        |
| 67 | Intercomparison of trend analysis of Multisatellite Monthly Precipitation Products and Gauge Measurements for River Basins of India. Journal of Hydrology, 2018, 565, 779-790. | 2.3 | 76        |
| 68 | Satellite observations and modeling to understand the Lower Mekong River Basin streamflow variability. Journal of Hydrology, 2018, 564, 559-573.                               | 2.3 | 59        |
| 69 | Improved Hydrological Decision Support System for the Lower Mekong River Basin Using Satellite-Based Earth Observations. Remote Sensing, 2018, 10, 885.                        | 1.8 | 59        |
| 70 | Use of Cyclone Global Navigation Satellite System (CyGNSS) Observations for Estimation of Soil Moisture. Geophysical Research Letters, 2018, 45, 8272-8282.                    | 1.5 | 138       |
| 71 | Bias Correction of Long-Term Satellite Monthly Precipitation Product (TRMM 3B43) over the Conterminous United States. Journal of Hydrometeorology, 2017, 18, 2491-2509.        | 0.7 | 59        |
| 72 | Soil Moisture Remote Sensing: Stateâ€™ofâ€™theâ€™Science. Vadose Zone Journal, 2017, 16, 1-9.  | 1.3 | 200       |

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|----|--|-----|-----------|
| 73 | Monitoring Drought in Brazil by Remote Sensing. Springer Remote Sensing/photogrammetry, 2017, , 197-218.   | 0.4 | 4         |
| 74 | Passive/active microwave soil moisture disaggregation using SMAP data. , 2017, , .   |     | 0         |
| 75 | Optical and Physical Methods for Mapping Flooding with Satellite Imagery. Springer Remote Sensing/photogrammetry, 2017, , 83-103.                                | 0.4 | 5         |
| 76 | Comparing and Combining Remotely Sensed Land Surface Temperature Products for Improved Hydrological Applications. Remote Sensing, 2016, 8, 162.                  | 1.8 | 22        |
| 77 | Beyond <sc>GRACE</sc>: Using Satellite Data for Groundwater Investigations. Ground Water, 2016, 54, 615-618.   | 0.7 | 28        |
| 78 | Daily rainfall statistics of TRMM and CMORPH: A case for trans-boundary Gandak River basin. Journal of Earth System Science, 2016, 125, 919-934.                 | 0.6 | 20        |
| 79 | A global assessment of the timing of extreme rainfall from TRMM and GPM for improving hydrologic design. Environmental Research Letters, 2016, 11, 054003.       | 2.2 | 50        |
| 80 | A new framework for monitoring flood inundation using readily available satellite data. Geophysical Research Letters, 2016, 43, 2599-2605.                       | 1.5 | 20        |
| 81 | Using a data grid to automate data preparation pipelines required for regional-scale hydrologic modeling. Environmental Modelling and Software, 2016, 78, 31-39. | 1.9 | 20        |
| 82 | A methodology for evaluating evapotranspiration estimates at the watershed-scale using GRACE. Journal of Hydrology, 2015, 523, 574-586.                          | 2.3 | 56        |
| 83 | Passive/active microwave soil moisture retrieval disaggregation using SMAPVEX12 data. Proceedings of SPIE, 2014, , .   | 0.8 | 2         |
| 84 | Soil moisture at watershed scale: Remote sensing techniques. Journal of Hydrology, 2014, 516, 258-272.   | 2.3 | 120       |
| 85 | Spatial downscaling of coarse passive radiometer soil moisture using radar, vegetation index and surface temperature. , 2013, , .                                |     | 0         |
| 86 | Remote Sensing of Soil Moisture. ISRN Soil Science, 2013, 2013, 1-33.  | 0.8 | 75        |
| 87 | Passive Microwave Soil Moisture Downscaling Using Vegetation Index and Skin Surface Temperature. Vadose Zone Journal, 2013, 12, 1-19.                            | 1.3 | 79        |
| 88 | Evaluating Bias-Corrected AMSR Soil Moisture using in situ Observations and Model Estimates. Vadose Zone Journal, 2013, 12, 1-13.                                | 1.3 | 27        |
| 89 | Remote Sensing for Vadose Zone Hydrology-A Synthesis from the Vantage Point. Vadose Zone Journal, 2013, 12, 1-6.   | 1.3 | 16        |
| 90 | Monitoring water from space. Eos, 2012, 93, 203-204.   | 0.1 | 0         |

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|-----|--|-----|-----------|
| 91  | A comparison of SNOTEL and AMSR-E snow water equivalent data sets in western US watersheds. International Journal of Remote Sensing, 2011, 32, 6611-6629.  | 1.3 | 7         |
| 92  | Validation of AMSR-E soil moisture using L-band airborne radiometer data from National Airborne Field Experiment 2006. Remote Sensing of Environment, 2011, 115, 2096-2103.                                    | 4.6 | 43        |
| 93  | The influence of the land surface on hydrometeorology and ecology: new advances from modeling and satellite remote sensing. Hydrology Research, 2011, 42, 95-112.  | 1.1 | 40        |
| 94  | Validation of the ASAR Global Monitoring Mode Soil Moisture Product Using the NAFE'05 Data Set. IEEE Transactions on Geoscience and Remote Sensing, 2010, 48, 2498-2508.                                       | 2.7 | 40        |
| 95  | An Assessment of QuikSCAT Ku-Band Scatterometer Data for Soil Moisture Sensitivity. IEEE Geoscience and Remote Sensing Letters, 2009, 6, 640-643.  | 1.4 | 28        |
| 96  | Terrain: Slope Influence on QuikSCAT Backscatter. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 2722-2732.   | 2.7 | 5         |
| 97  | Effects of vegetation and soil moisture on the simulated land surface processes from the coupled WRF/Noah model. Journal of Geophysical Research, 2009, 114, .   | 3.3 | 80        |
| 98  | Aircraft based soil moisture retrievals under mixed vegetation and topographic conditions. Remote Sensing of Environment, 2008, 112, 375-390.  | 4.6 | 55        |
| 99  | Characterizing subpixel variability of low resolution radiometer derived soil moisture using high resolution radar data. Water Resources Research, 2008, 44, .   | 1.7 | 47        |
| 100 | Relationship between Vegetation Biophysical Properties and Surface Temperature Using Multisensor Satellite Data. Journal of Climate, 2007, 20, 5593-5606.  | 1.2 | 30        |
| 101 | Variation of Hydrometeorological Conditions along a Topographic Transect in Northwestern Mexico during the North American Monsoon. Journal of Climate, 2007, 20, 1792-1809.                                    | 1.2 | 69        |
| 102 | Validation of AMSR-E Soil Moisture Products Using Watershed Networks. , 2006, , .  |     | 7         |
| 103 | Long Term Trends in Microwave Brightness Temperature and Vegetation from SSM/I and AVHRR. , 2006, , .  |     | 0         |
| 104 | Large scale measurements of soil moisture for validation of remotely sensed data: Georgia soil moisture experiment of 2003. Journal of Hydrology, 2006, 323, 120-137.  | 2.3 | 99        |
| 105 | High-resolution change estimation of soil moisture using L-band radiometer and Radar observations made during the SMEX02 experiments. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1545-1554. | 2.7 | 139       |
| 106 | The Effects of Satellite-Derived Vegetation Cover Variability on Simulated Land-Atmosphere Interactions in the NAMS. Journal of Climate, 2005, 18, 21-40.  | 1.2 | 70        |
| 107 | A Simple Method for Spatial Disaggregation of Radiometer Derived Soil Moisture using Higher Resolution Radar Observations. Journal of Electromagnetic Waves and Applications, 2005, 19, 1711-1719.             | 1.0 | 3         |
| 108 | Microwave remote sensing of soil moisture: evaluation of the TRMM microwave imager (TMI) satellite for the Little River Watershed Tifton, Georgia. Journal of Hydrology, 2005, 307, 242-253.                   | 2.3 | 62        |

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|-----|---|-----|-----------|
| 109 | Remote Sensing and Hydrology. , 2005, , .   |     | 0         |
| 110 | Simulation of Water and Energy Budgets Using a Macroscale Hydrological Model for the Upper Mississippi River Basin. , 2005, , 97-127.   |     | 0         |
| 111 | Retrieval of soil moisture from passive and active L/S band sensor (PALS) observations during the Soil Moisture Experiment in 2002 (SMEX02). Remote Sensing of Environment, 2004, 92, 483-496.                          | 4.6 | 89        |
| 112 | The role of satellite remote sensing in the Prediction of Ungauged Basins. Hydrological Processes, 2004, 18, 1029-1034.   | 1.1 | 59        |
| 113 | Predictions in ungauged basins as a catalyst for multidisciplinary hydrology. Eos, 2004, 85, 451.   | 0.1 | 43        |
| 114 | Soil moisture as an indicator of weather extremes. Geophysical Research Letters, 2004, 31, n/a-n/a.   | 1.5 | 56        |
| 115 | Analysis of process controls in land surface hydrological cycle over the continental United States. Journal of Geophysical Research, 2004, 109, n/a-n/a.  | 3.3 | 47        |
| 116 | Use of the scanning multichannel microwave radiometer (SMMR) to retrieve soil moisture and surface temperature over the central United States. IEEE Transactions on Geoscience and Remote Sensing, 2004, 42, 1482-1494. | 2.7 | 14        |
| 117 | Soil moisture-temperature relationships: results from two field experiments. Hydrological Processes, 2003, 17, 3041-3057.   | 1.1 | 84        |
| 118 | Soil moisture estimates from TRMM Microwave Imager observations over the Southern United States. Remote Sensing of Environment, 2003, 85, 507-515.  | 4.6 | 131       |
| 119 | IAHS Decade on Predictions in Ungauged Basins (PUB), 2003â€“2012: Shaping an exciting future for the hydrological sciences. Hydrological Sciences Journal, 2003, 48, 857-880.   | 1.2 | 982       |
| 120 | CCIP water and energy budget synthesis (WEBS). Journal of Geophysical Research, 2003, 108, .  | 3.3 | 86        |
| 121 | Soil moisture retrieval using the passive/active l- and s-band radar/radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 2792-2801.   | 2.7 | 55        |
| 122 | Soil moisture retrieval from AMSR-E. IEEE Transactions on Geoscience and Remote Sensing, 2003, 41, 215-229.   | 2.7 | 1,259     |
| 123 | Links between Snow Cover, Surface Skin Temperature, and Rainfall Variability in the North American Monsoon System. Journal of Climate, 2003, 16, 1821-1829.   | 1.2 | 28        |
| 124 | Normalization and comparison of surface temperatures across a range of scales. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2636-2646.   | 2.7 | 19        |
| 125 | Sensitivity, spatial heterogeneity, and scaling of C-band microwave brightness temperatures for land hydrology studies. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2626-2635.                        | 2.7 | 15        |
| 126 | Observations of soil moisture using a passive and active low-frequency microwave airborne sensor during SGP99. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 2659-2673.                                 | 2.7 | 191       |



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|-----|---|-----|-----------|
| 127 | Comparison of surface meteorological variables from TOVS and AVHRR. Remote Sensing of Environment, 2002, 79, 176-188.   | 4.6 | 5         |
| 128 | Validation of land surface models using satellite-derived surface temperature. Journal of Geophysical Research, 2001, 106, 20085-20099.   | 3.3 | 13        |
| 129 | Analysis of the 1993 midwestern flood using satellite and ground data. IEEE Transactions on Geoscience and Remote Sensing, 2001, 39, 1736-1743.   | 2.7 | 10        |
| 130 | Land surface air temperature mapping using TOVS and AVHRR. International Journal of Remote Sensing, 2001, 22, 643-662.  | 1.3 | 53        |
| 131 | Assimilation of fAPAR and surface temperature into a land surface and vegetation model. Water Science and Application, 2001, , 177-200.   | 0.3 | 4         |
| 132 | Utilization of satellite data in land surface hydrology: sensitivity and assimilation. Hydrological Processes, 2001, 15, 877-892.   | 1.1 | 13        |
| 133 | A simple surface temperature assimilation scheme for use in land surface models. Water Resources Research, 2000, 36, 3687-3700.   | 1.7 | 56        |
| 134 | Comparison of TOVS-derived land surface variables with ground observations. Journal of Geophysical Research, 2000, 105, 2179-2190.  | 3.3 | 34        |
| 135 | Longwave emission from a plant/soil surface as a function of the view direction: Dependence on the canopy architecture. International Journal of Remote Sensing, 1999, 20, 2195-2201.             | 1.3 | 16        |
| 136 | Determination of land surface skin temperatures and surface air temperature and humidity from TOVS HIRS2/MSU data. Advances in Space Research, 1998, 22, 629-636.                                 | 1.2 | 18        |
| 137 | Diurnal cycles of evaporation using a two-layer hydrological model. Journal of Hydrology, 1998, 204, 37-51.   | 2.3 | 13        |
| 138 | Special sensor microwave imager data in field experiments: FIFE-1987. International Journal of Remote Sensing, 1998, 19, 481-505.   | 1.3 | 13        |
| 139 | Investigation of effect of heterogeneities in vegetation and rainfall on simulated SSM/I brightness temperatures. International Journal of Remote Sensing, 1997, 18, 2763-2784.                   | 1.3 | 10        |
| 140 | Evaluation of Special Sensor Microwave/Imager Satellite Data for Regional Soil Moisture Estimation over the Red River Basin. Journal of Applied Meteorology and Climatology, 1997, 36, 1309-1328. | 1.7 | 56        |
| 141 | A soil-canopy-atmosphere model for use in satellite microwave remote sensing. Journal of Geophysical Research, 1997, 102, 6911-6927.  | 3.3 | 30        |
| 142 | Scaling Water and Energy Fluxes in Climate Systems: Three Land-Atmospheric Modeling Experiments. Journal of Climate, 1993, 6, 839-857.  | 1.2 | 58        |
| 143 | A Monte Carlo Study of rainfall sampling effect on a distributed catchment model. Water Resources Research, 1991, 27, 119-128.  | 1.7 | 161       |
| 144 | Simulation of microwave brightness temperatures using a coupled land-surface-canopy-atmosphere model. , 0, , .  |     | 2         |

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|-----|---|-----|-----------|
| 145 | Land surface hydrological processes using satellite data. , 0 , , .   |     | 1         |
| 146 | Validation of satellite retrieved land surface variables. , 0 , , .   |     | 0         |
| 147 | Surface temperature assimilation in land surface models. , 0 , , .  |     | 0         |
| 148 | Sensitivity of Remotely Sensed Vegetation to Hydrologic Predictors across the Colorado River Basin, 2001â€”2019. Journal of the American Water Resources Association, 0 , , . | 1.0 | 1         |