

Randal D Koster

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.

177
papers

26,684
citations

73
h-index

163
g-index

186
ext. papers

30,200
ext. citations

5.3
avg, IF

6.61
L-index

| # | Paper | IF | Citations |
|-----|---|-----|-----------|
| 177 | Exceptional Warmth in the Northern Hemisphere during January through March of 2020: The Roles of Unforced and Forced Modes of Atmospheric Variability. <i>Journal of Climate</i> , 2022 , 1-56 | 4.4 | 2 |
| 176 | Seasonal Variability in the Mechanisms Behind the 2020 Siberian Heatwaves. <i>Journal of Climate</i> , 2022 , 1-44 | 4.4 | 1 |
| 175 | Skillful Seasonal Forecasts of Land Carbon Uptake in Northern Mid- and High Latitudes. <i>Geophysical Research Letters</i> , 2022 , 49, | 4.9 | 1 |
| 174 | On the Development and Demise of the Fall 2019 Southeast U.S. Flash Drought: Links to an Extreme Positive IOD. <i>Journal of Climate</i> , 2021 , 34, 1701-1723 | 4.4 | 7 |
| 173 | The Contributions of Gauge-Based Precipitation and SMAP Brightness Temperature Observations to the Skill of the SMAP Level-4 Soil Moisture Product. <i>Journal of Hydrometeorology</i> , 2021 , 22, 405-424 | 3.7 | 6 |
| 172 | The response of the Amazon ecosystem to the photosynthetically active radiation fields: integrating impacts of biomass burning aerosol and clouds in the NASA GEOS Earth system model. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14177-14197 | 6.8 | 0 |
| 171 | Asymmetry in Subseasonal Surface Air Temperature Forecast Error with Respect to Soil Moisture Initialization. <i>Journal of Hydrometeorology</i> , 2021 , 22, 2505-2519 | 3.7 | 1 |
| 170 | Prediction Skill of the 2012 U.S. Great Plains Flash Drought in Subseasonal Experiment (SubX) Models. <i>Journal of Climate</i> , 2020 , 33, 6229-6253 | 4.4 | 9 |
| 169 | An Observation-Driven Approach to Improve Vegetation Phenology in a Global Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2020MS002083 | 7.1 | 2 |
| 168 | Impact of a Regional U.S. Drought on Land and Atmospheric Carbon. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2020 , 125, e2019JG005599 | 3.7 | 3 |
| 167 | The NASA Hydrological Forecast System for Food and Water Security Applications. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1007-E1025 | 6.1 | 15 |
| 166 | GEOS-S2S Version 2: The GMAO High Resolution Coupled Model and Assimilation System for Seasonal Prediction. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031767 | 4.4 | 34 |
| 165 | Mechanisms Associated with Daytime and Nighttime Heat Waves over the Contiguous United States. <i>Journal of Applied Meteorology and Climatology</i> , 2020 , 59, 1865-1882 | 2.7 | 7 |
| 164 | Using a Simple Water Balance Framework to Quantify the Impact of Soil Moisture Initialization on Subseasonal Evapotranspiration and Air Temperature Forecasts. <i>Journal of Hydrometeorology</i> , 2020 , 21, 1705-1722 | 3.7 | 2 |
| 163 | Improving early warning of drought-driven food insecurity in southern Africa using operational hydrological monitoring and forecasting products. <i>Natural Hazards and Earth System Sciences</i> , 2020 , 20, 1187-1201 | 3.9 | 8 |
| 162 | Investigation of the 2016 Eurasia heat wave as an event of the recent warming. <i>Environmental Research Letters</i> , 2020 , 15, 114018 | 6.2 | 5 |
| 161 | Attribution of the 2017 Northern High Plains Drought. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, S25-S29 | 6.1 | 9 |

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| 160 | Flash Drought as Captured by Reanalysis Data: Disentangling the Contributions of Precipitation Deficit and Excess Evapotranspiration. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1241-1258 | 3.7 | 37 |
| 159 | Length Scales of Hydrological Variability as Inferred from SMAP Soil Moisture Retrievals. <i>Journal of Hydrometeorology</i> , 2019 , 20, 2129-2146 | 3.7 | 3 |
| 158 | A Systematic Approach to Assessing the Sources and Global Impacts of Errors in Climate Models. <i>Journal of Climate</i> , 2019 , 32, 8301-8321 | 4.4 | 4 |
| 157 | Phase Locking of the Boreal Summer Atmospheric Response to Dry Land Surface Anomalies in the Northern Hemisphere. <i>Journal of Climate</i> , 2019 , 32, 1081-1099 | 4.4 | 11 |
| 156 | Impact of soil moisture initialization on boreal summer subseasonal forecasts: mid-latitude surface air temperature and heat wave events. <i>Climate Dynamics</i> , 2019 , 52, 1695-1709 | 4.2 | 21 |
| 155 | The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 2043-2060 | 6.1 | 72 |
| 154 | PEAT-CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 2130-2162 | 7.1 | 15 |
| 153 | Permafrost variability over the Northern Hemisphere based on the MERRA-2 reanalysis. <i>Cryosphere</i> , 2019 , 13, 2087-2110 | 5.5 | 14 |
| 152 | Version 4 of the SMAP Level-4 Soil Moisture Algorithm and Data Product. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 3106-3130 | 7.1 | 52 |
| 151 | Tendency Bias Correction in Coupled and Uncoupled Global Climate Models with a Focus on Impacts over North America. <i>Journal of Climate</i> , 2019 , 32, 639-661 | 4.4 | 13 |
| 150 | Verification of land-atmosphere coupling in forecast models, reanalyses and land surface models using flux site observations. <i>Journal of Hydrometeorology</i> , 2018 , 19, 375-392 | 3.7 | 46 |
| 149 | Improved Hydrological Simulation Using SMAP Data: Relative Impacts of Model Calibration and Data Assimilation. <i>Journal of Hydrometeorology</i> , 2018 , 19, 727-741 | 3.7 | 27 |
| 148 | Assessment of MERRA-2 Land Surface Energy Flux Estimates. <i>Journal of Climate</i> , 2018 , 31, 671-691 | 4.4 | 48 |
| 147 | Impacts of Snow Darkening by Deposition of Light-Absorbing Aerosols on Hydroclimate of Eurasia During Boreal Spring and Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8441-8461 | 4.4 | 16 |
| 146 | Global relationships among traditional reflectance vegetation indices (NDVI and NDII), evapotranspiration (ET), and soil moisture variability on weekly timescales. <i>Remote Sensing of Environment</i> , 2018 , 219, 339-352 | 13.2 | 53 |
| 145 | The impact of spatiotemporal variability in atmospheric CO ₂ concentration on global terrestrial carbon fluxes. <i>Biogeosciences</i> , 2018 , 15, 5635-5652 | 4.6 | 7 |
| 144 | Estimating Basin-Scale Water Budgets with SMAP Soil Moisture Data. <i>Water Resources Research</i> , 2018 , 54, 4228-4244 | 5.4 | 22 |
| 143 | A Data-Driven Approach for Daily Real-Time Estimates and Forecasts of Near-Surface Soil Moisture. <i>Journal of Hydrometeorology</i> , 2017 , 18, 837-843 | 3.7 | 16 |

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| 142 | The Modern-Era Retrospective Analysis for Research and Applications, Version 2 (MERRA-2). <i>Journal of Climate</i> , 2017 , Volume 30, 5419-5454 | 4.4 | 2815 |
| 141 | North American Drought and Links to Northern Eurasia. <i>Geophysical Monograph Series</i> , 2017 , 195-221 | 1.1 | 1 |
| 140 | Assessment of MERRA-2 Land Surface Hydrology Estimates. <i>Journal of Climate</i> , 2017 , 30, 2937-2960 | 4.4 | 159 |
| 139 | Global Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using Assimilation Diagnostics. <i>Journal of Hydrometeorology</i> , 2017 , 18, 3217-3237 | 3.7 | 73 |
| 138 | Hydroclimatic Variability and Predictability: A Survey of Recent Research. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3777-3798 | 5.5 | 21 |
| 137 | Assessment of the SMAP Level-4 Surface and Root-Zone Soil Moisture Product Using In Situ Measurements. <i>Journal of Hydrometeorology</i> , 2017 , 18, 2621-2645 | 3.7 | 139 |
| 136 | Evaluation and enhancement of permafrost modeling with the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2771-2795 | 7.1 | 6 |
| 135 | Land Surface Precipitation in MERRA-2. <i>Journal of Climate</i> , 2017 , 30, 1643-1664 | 4.4 | 195 |
| 134 | Large Scale Influences on Summertime Extreme Precipitation in the Northeastern United States. <i>Journal of Hydrometeorology</i> , 2016 , Volume 17, 3045-3061 | 3.7 | 42 |
| 133 | SMAP Level 4 Surface and Root Zone Soil Moisture 2016 , | | 17 |
| 132 | Impacts of Local Soil Moisture Anomalies on the Atmospheric Circulation and on Remote Surface Meteorological Fields during Boreal Summer: A Comprehensive Analysis over North America. <i>Journal of Climate</i> , 2016 , 29, 7345-7364 | 4.4 | 57 |
| 131 | Confronting weather and climate models with observational data from soil moisture networks over the United States. <i>Journal of Hydrometeorology</i> , 2016 , 17, 1049-1067 | 3.7 | 60 |
| 130 | Efficiency Space—A Framework for Evaluating Joint Evaporation and Runoff Behavior. <i>Bulletin of the American Meteorological Society</i> , 2016 , 2016, 393-396 | 6.1 | |
| 129 | Global Meteorological Drought: A Synthesis of Current Understanding with a Focus on SST Drivers of Precipitation Deficits. <i>Journal of Climate</i> , 2016 , 29, 3989-4019 | 4.4 | 118 |
| 128 | Precipitation Estimation Using L-Band and C-Band Soil Moisture Retrievals. <i>Water Resources Research</i> , 2016 , 52, 7213-7225 | 5.4 | 61 |
| 127 | A Modeling Study of the Causes and Predictability of the Spring 2011 Extreme US Weather Activity. <i>Journal of Climate</i> , 2016 , 29, 7869-7887 | 4.4 | 3 |
| 126 | The 2010 Russian drought impact on satellite measurements of solar-induced chlorophyll fluorescence: Insights from modeling and comparisons with parameters derived from satellite reflectances. <i>Remote Sensing of Environment</i> , 2015 , 166, 163-177 | 13.2 | 142 |
| 125 | Efficiency Space—A Framework for Evaluating Joint Evaporation and Runoff Behavior*. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 393-396 | 6.1 | 16 |

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| 124 | Interactive Vegetation Phenology, Soil Moisture, and Monthly Temperature Forecasts. <i>Journal of Hydrometeorology</i> , 2015 , 16, 1456-1465 | 3.7 | 13 |
| 123 | Impact of snow darkening via dust, black carbon, and organic carbon on boreal spring climate in the Earth system. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5485-5503 | 4.4 | 51 |
| 122 | Evaluating the utility of satellite soil moisture retrievals over irrigated areas and the ability of land data assimilation methods to correct for unmodeled processes. <i>Hydrology and Earth System Sciences</i> , 2015 , 19, 4463-4478 | 5.5 | 97 |
| 121 | The pattern across the continental United States of evapotranspiration variability associated with water availability. <i>Frontiers in Earth Science</i> , 2015 , 3, | 3.5 | 11 |
| 120 | Northern Eurasian Heat Waves and Droughts. <i>Journal of Climate</i> , 2014 , 27, 3169-3207 | 4.4 | 133 |
| 119 | Hydroclimatic Controls on the Means and Variability of Vegetation Phenology and Carbon Uptake. <i>Journal of Climate</i> , 2014 , 27, 5632-5652 | 4.4 | 18 |
| 118 | Soil Moisture Initialization Error and Subgrid Variability of Precipitation in Seasonal Streamflow Forecasting. <i>Journal of Hydrometeorology</i> , 2014 , 15, 69-88 | 3.7 | 13 |
| 117 | A Mechanism for Land-Atmosphere Feedback Involving Planetary Wave Structures. <i>Journal of Climate</i> , 2014 , 27, 9290-9301 | 4.4 | 41 |
| 116 | An updated treatment of soil texture and associated hydraulic properties in a global land modeling system. <i>Journal of Advances in Modeling Earth Systems</i> , 2014 , 6, 957-979 | 7.1 | 77 |
| 115 | On the Role of SST Forcing in the 2011 and 2012 Extreme U.S. Heat and Drought: A Study in Contrasts. <i>Journal of Hydrometeorology</i> , 2014 , 15, 1255-1273 | 3.7 | 46 |
| 114 | Seasonal variation of land-atmosphere coupling strength over the West African monsoon region in an atmospheric general circulation model. <i>Hydrological Sciences Journal</i> , 2013 , 58, 1276-1286 | 3.5 | 11 |
| 113 | Inferring Soil Moisture Memory from Streamflow Observations Using a Simple Water Balance Model. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1773-1790 | 3.7 | 28 |
| 112 | Phenological versus meteorological controls on land-atmosphere water and carbon fluxes. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 14-29 | 3.7 | 27 |
| 111 | Assimilation of GRACE terrestrial water storage into a land surface model: Evaluation and potential value for drought monitoring in western and central Europe. <i>Journal of Hydrology</i> , 2012 , 446-447, 103-115 | 6.5 | 126 |
| 110 | Soil moisture effects on seasonal temperature and precipitation forecast scores in Europe. <i>Climate Dynamics</i> , 2012 , 38, 349-362 | 4.2 | 91 |
| 109 | Correction to Influence of dust and black carbon on the snow albedo in the NASA Goddard Earth Observing System version 5 land surface model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 3 |
| 108 | Soil Moisture, Snow, and Seasonal Streamflow Forecasts in the United States. <i>Journal of Hydrometeorology</i> , 2012 , 13, 189-203 | 3.7 | 105 |
| 107 | Rebound in Atmospheric Predictability and the Role of the Land Surface. <i>Journal of Climate</i> , 2012 , 25, 4744-4749 | 4.4 | 44 |

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| 106 | Land Surface Controls on Hydroclimatic Means and Variability. <i>Journal of Hydrometeorology</i> , 2012 , 13, 1604-1620 | 3-7 | 63 |
| 105 | A Revised Framework for Analyzing Soil Moisture Memory in Climate Data: Derivation and Interpretation. <i>Journal of Hydrometeorology</i> , 2012 , 13, 404-412 | 3-7 | 40 |
| 104 | Influence of dust and black carbon on the snow albedo in the NASA Goddard Earth Observing System version 5 land surface model. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 48 |
| 103 | MERRA: NASA's Modern-Era Retrospective Analysis for Research and Applications. <i>Journal of Climate</i> , 2011 , 24, 3624-3648 | 4-4 | 3548 |
| 102 | The Second Phase of the Global Land-Atmosphere Coupling Experiment: Soil Moisture Contributions to Subseasonal Forecast Skill. <i>Journal of Hydrometeorology</i> , 2011 , 12, 805-822 | 3-7 | 242 |
| 101 | Assessment and Enhancement of MERRA Land Surface Hydrology Estimates. <i>Journal of Climate</i> , 2011 , 24, 6322-6338 | 4-4 | 365 |
| 100 | Skill in streamflow forecasts derived from large-scale estimates of soil moisture and snow. <i>Nature Geoscience</i> , 2010 , 3, 613-616 | 18-3 | 195 |
| 99 | The Physical Mechanisms by Which the Leading Patterns of SST Variability Impact U.S. Precipitation. <i>Journal of Climate</i> , 2010 , 23, 1815-1836 | 4-4 | 37 |
| 98 | Assimilation of Satellite-Derived Skin Temperature Observations into Land Surface Models. <i>Journal of Hydrometeorology</i> , 2010 , 11, 1103-1122 | 3-7 | 109 |
| 97 | Contribution of land surface initialization to subseasonal forecast skill: First results from a multi-model experiment. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4-9 | 280 |
| 96 | Performance Metrics for Soil Moisture Retrievals and Application Requirements. <i>Journal of Hydrometeorology</i> , 2010 , 11, 832-840 | 3-7 | 308 |
| 95 | The Soil Moisture Active Passive (SMAP) Mission. <i>Proceedings of the IEEE</i> , 2010 , 98, 704-716 | 14-3 | 1845 |
| 94 | A U.S. CLIVAR Project to Assess and Compare the Responses of Global Climate Models to Drought-Related SST Forcing Patterns: Overview and Results. <i>Journal of Climate</i> , 2009 , 22, 5251-5272 | 4-4 | 260 |
| 93 | Multimodel Ensemble Reconstruction of Drought over the Continental United States. <i>Journal of Climate</i> , 2009 , 22, 2694-2712 | 4-4 | 139 |
| 92 | On the Nature of Soil Moisture in Land Surface Models. <i>Journal of Climate</i> , 2009 , 22, 4322-4335 | 4-4 | 387 |
| 91 | Analyzing the Concurrence of Meteorological Droughts and Warm Periods, with Implications for the Determination of Evaporative Regime. <i>Journal of Climate</i> , 2009 , 22, 3331-3341 | 4-4 | 121 |
| 90 | African Easterly Jet: Structure and Maintenance. <i>Journal of Climate</i> , 2009 , 22, 4459-4480 | 4-4 | 41 |
| 89 | Role of Subsurface Physics in the Assimilation of Surface Soil Moisture Observations. <i>Journal of Hydrometeorology</i> , 2009 , 10, 1534-1547 | 3-7 | 145 |

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| 88 | Drought-Induced Warming in the Continental United States under Different SST Regimes. <i>Journal of Climate</i> , 2009 , 22, 5385-5400 | 4.4 | 13 |
| 87 | Recent Advances in Land Data Assimilation at the NASA Global Modeling and Assimilation Office 2009 , 407-428 | | 16 |
| 86 | Contribution of soil moisture retrievals to land data assimilation products. <i>Geophysical Research Letters</i> , 2008 , 35, | 4.9 | 74 |
| 85 | Potential Predictability of Long-Term Drought and Pluvial Conditions in the U.S. Great Plains. <i>Journal of Climate</i> , 2008 , 21, 802-816 | 4.4 | 65 |
| 84 | Using Observed Spatial Correlation Structures to Increase the Skill of Subseasonal Forecasts. <i>Monthly Weather Review</i> , 2008 , 136, 1923-1930 | 2.4 | 4 |
| 83 | Impact of Subsurface Temperature Variability on Surface Air Temperature Variability: An AGCM Study. <i>Journal of Hydrometeorology</i> , 2008 , 9, 804-815 | 3.7 | 25 |
| 82 | A land surface data assimilation framework using the land information system: Description and applications. <i>Advances in Water Resources</i> , 2008 , 31, 1419-1432 | 4.7 | 156 |
| 81 | The role of soil moisture initialization in subseasonal and seasonal streamflow prediction A case study in Sri Lanka. <i>Advances in Water Resources</i> , 2008 , 31, 1333-1343 | 4.7 | 32 |
| 80 | Comparison and assimilation of global soil moisture retrievals from the Advanced Microwave Scanning Radiometer for the Earth Observing System (AMSR-E) and the Scanning Multichannel Microwave Radiometer (SMMR). <i>Journal of Geophysical Research</i> , 2007 , 112, | | 271 |
| 79 | MEETING SUMMARIES. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 1625-1634 | 6.1 | 30 |
| 78 | Estimation of Predictability with a Newly Derived Index to Quantify Similarity among Ensemble Members. <i>Monthly Weather Review</i> , 2007 , 135, 2674-2687 | 2.4 | 20 |
| 77 | Improving Short-term Climate Forecasts with Satellite Observations 2006 , | | 1 |
| 76 | Multiple spaceborne water cycle observations would aid modeling. <i>Eos</i> , 2006 , 87, 149 | 1.5 | 4 |
| 75 | Revisiting a hydrological analysis framework with International Satellite Land Surface Climatology Project Initiative 2 rainfall, net radiation, and runoff fields. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 22 |
| 74 | GLACE: The Global LandAtmosphere Coupling Experiment. Part I: Overview. <i>Journal of Hydrometeorology</i> , 2006 , 7, 590-610 | 3.7 | 525 |
| 73 | GLACE: The Global LandAtmosphere Coupling Experiment. Part II: Analysis. <i>Journal of Hydrometeorology</i> , 2006 , 7, 611-625 | 3.7 | 287 |
| 72 | Soil Moisture Memory in AGCM Simulations: Analysis of Global LandAtmosphere Coupling Experiment (GLACE) Data. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1090-1112 | 3.7 | 212 |
| 71 | Distinct Hydrological Signatures in Observed Historical Temperature Fields. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1061-1075 | 3.7 | 19 |

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| 70 | Do Global Models Properly Represent the Feedback between Land and Atmosphere?. <i>Journal of Hydrometeorology</i> , 2006 , 7, 1177-1198 | 3.7 | 180 |
| 69 | Global assimilation of satellite surface soil moisture retrievals into the NASA Catchment land surface model. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 173 |
| 68 | Relevance of time-varying and time-invariant retrieval error sources on the utility of spaceborne soil moisture products. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 46 |
| 67 | AGCM Biases in Evaporation Regime: Impacts on Soil Moisture Memory and Land-Atmosphere Feedback. <i>Journal of Hydrometeorology</i> , 2005 , 6, 656-669 | 3.7 | 18 |
| 66 | The hydrosphere State (hydros) Satellite mission: an Earth system pathfinder for global mapping of soil moisture and land freeze/thaw. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2004 , 42, 2184-2195 | 8.1 | 179 |
| 65 | On the cause of the 1930s Dust Bowl. <i>Science</i> , 2004 , 303, 1855-9 | 33.3 | 434 |
| 64 | Regions of strong coupling between soil moisture and precipitation. <i>Science</i> , 2004 , 305, 1138-40 | 33.3 | 1939 |
| 63 | Bias reduction in short records of satellite soil moisture. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 409 |
| 62 | Global Soil Moisture from Satellite Observations, Land Surface Models, and Ground Data: Implications for Data Assimilation. <i>Journal of Hydrometeorology</i> , 2004 , 5, 430-442 | 3.7 | 246 |
| 61 | The Rhine-Aggregation Land Surface Scheme Intercomparison Project: An Overview. <i>Journal of Climate</i> , 2004 , 17, 187-208 | 4.4 | 161 |
| 60 | Suggestions in the Observational Record of Land-Atmosphere Feedback Operating at Seasonal Time Scales. <i>Journal of Hydrometeorology</i> , 2004 , 5, 567-572 | 3.7 | 28 |
| 59 | Realistic Initialization of Land Surface States: Impacts on Subseasonal Forecast Skill. <i>Journal of Hydrometeorology</i> , 2004 , 5, 1049-1063 | 3.7 | 161 |
| 58 | Causes of Long-Term Drought in the U.S. Great Plains. <i>Journal of Climate</i> , 2004 , 17, 485-503 | 4.4 | 277 |
| 57 | Intercomparison of Soil Moisture Memory in Two Land Surface Models. <i>Journal of Hydrometeorology</i> , 2003 , 4, 1134-1146 | 3.7 | 22 |
| 56 | Assessing the Impact of Horizontal Error Correlations in Background Fields on Soil Moisture Estimation. <i>Journal of Hydrometeorology</i> , 2003 , 4, 1229-1242 | 3.7 | 112 |
| 55 | Impact of Land Surface Initialization on Seasonal Precipitation and Temperature Prediction. <i>Journal of Hydrometeorology</i> , 2003 , 4, 408-423 | 3.7 | 106 |
| 54 | Observational evidence that soil moisture variations affect precipitation. <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a | 4.9 | 183 |
| 53 | Simulation of high-latitude hydrological processes in the Torne-Kalix basin: PILPS Phase 2(e). <i>Global and Planetary Change</i> , 2003 , 38, 55-71 | 4.2 | 19 |

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|----|--|-----|-----|
| 52 | Influence of the Interannual Variability of Vegetation on the Surface Energy Balance: A Global Sensitivity Study. <i>Journal of Hydrometeorology</i> , 2002 , 3, 617-629 | 3.7 | 47 |
| 51 | Extended versus Ensemble Kalman Filtering for Land Data Assimilation. <i>Journal of Hydrometeorology</i> , 2002 , 3, 728-740 | 3.7 | 278 |
| 50 | Comparing the Degree of Land-Atmosphere Interaction in Four Atmospheric General Circulation Models. <i>Journal of Hydrometeorology</i> , 2002 , 3, 363-375 | 3.7 | 100 |
| 49 | Representation of subsurface storm flow and a more responsive water table in a TOPMODEL-based hydrology model. <i>Water Resources Research</i> , 2002 , 38, 31-1-31-16 | 5.4 | 24 |
| 48 | The Impact of Detailed Snow Physics on the Simulation of Snow Cover and Subsurface Thermodynamics at Continental Scales. <i>Journal of Hydrometeorology</i> , 2001 , 2, 228-242 | 3.7 | 108 |
| 47 | Influence of Land Surface Fluxes on Precipitation: Inferences from Simulations Forced with Four ARM-CART SCM Datasets. <i>Journal of Climate</i> , 2001 , 14, 3666-3691 | 4.4 | 11 |
| 46 | Soil Moisture Memory in Climate Models. <i>Journal of Hydrometeorology</i> , 2001 , 2, 558-570 | 3.7 | 327 |
| 45 | Comparing GCM-generated land surface water budgets using a simple common framework. <i>Water Science and Application</i> , 2001 , 95-105 | | 3 |
| 44 | The Sensitivity of Surface Fluxes to Soil Water Content in Three Land Surface Schemes. <i>Journal of Hydrometeorology</i> , 2000 , 1, 121-134 | 3.7 | 95 |
| 43 | Variance and Predictability of Precipitation at Seasonal-to-Interannual Timescales. <i>Journal of Hydrometeorology</i> , 2000 , 1, 26-46 | 3.7 | 341 |
| 42 | The origin of Antarctic precipitation: a modelling approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 19-36 | 3.3 | 46 |
| 41 | The origin of Antarctic precipitation: a modelling approach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000 , 52, 19-36 | 3.3 | 50 |
| 40 | Water isotopes in precipitation. <i>Quaternary Science Reviews</i> , 2000 , 19, 363-379 | 3.9 | 179 |
| 39 | A catchment-based approach to modeling land surface processes in a general circulation model: 1. Model structure. <i>Journal of Geophysical Research</i> , 2000 , 105, 24809-24822 | | 572 |
| 38 | A catchment-based approach to modeling land surface processes in a general circulation model: 2. Parameter estimation and model demonstration. <i>Journal of Geophysical Research</i> , 2000 , 105, 24823-24838 | | 198 |
| 37 | Validity of the isotopic thermometer in central Antarctica: Limited impact of glacial precipitation seasonality and moisture origin. <i>Geophysical Research Letters</i> , 2000 , 27, 2677-2680 | 4.9 | 40 |
| 36 | Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parametrization Schemes. <i>Climate Dynamics</i> , 1999 , 15, 673-684 | 4.2 | 92 |
| 35 | A catchment-based land surface model for GCMs and the framework for its evaluation. <i>Physics and Chemistry of the Earth</i> , 1999 , 24, 769-773 | | 11 |

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|----|---|------|-----|
| 34 | The Offline Validation of Land Surface Models. <i>Journal of the Meteorological Society of Japan</i> , 1999 , 77, 257-263 | 2.8 | 18 |
| 33 | An Agenda for Land Surface Hydrology Research and a Call for the Second International Hydrological Decade. <i>Bulletin of the American Meteorological Society</i> , 1999 , 80, 2043-2058 | 6.1 | 160 |
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