

Eric F Wood

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396
papers

42,526
citations

105
h-index

197
g-index

421
ext. papers

48,425
ext. citations

5.7
avg, IF

7.58
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 396 | A simple hydrologically based model of land surface water and energy fluxes for general circulation models. <i>Journal of Geophysical Research</i> , 1994 , 99, 14415 | | 2485 |
| 395 | Recent decline in the global land evapotranspiration trend due to limited moisture supply. <i>Nature</i> , 2010 , 467, 951-4 | 50.4 | 1382 |
| 394 | Development of a 50-Year High-Resolution Global Dataset of Meteorological Forcings for Land Surface Modeling. <i>Journal of Climate</i> , 2006 , 19, 3088-3111 | 4.4 | 1347 |
| 393 | Present and future Köppen-Geiger climate classification maps at 1-km resolution. <i>Scientific Data</i> , 2018 , 5, 180214 | 8.2 | 1241 |
| 392 | Little change in global drought over the past 60 years. <i>Nature</i> , 2012 , 491, 435-8 | 50.4 | 1217 |
| 391 | The multi-institution North American Land Data Assimilation System (NLDAS): Utilizing multiple GCIP products and partners in a continental distributed hydrological modeling system. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 847 |
| 390 | Projected changes in drought occurrence under future global warming from multi-model, multi-scenario, IPCC AR4 simulations. <i>Climate Dynamics</i> , 2008 , 31, 79-105 | 4.2 | 804 |
| 389 | Estimation of the Generalized Extreme-Value Distribution by the Method of Probability-Weighted Moments. <i>Technometrics</i> , 1985 , 27, 251-261 | 1.4 | 801 |
| 388 | Surface soil moisture parameterization of the VIC-2L model: Evaluation and modification. <i>Global and Planetary Change</i> , 1996 , 13, 195-206 | 4.2 | 635 |
| 387 | Past and future changes in climate and hydrological indicators in the US Northeast. <i>Climate Dynamics</i> , 2007 , 28, 381-407 | 4.2 | 597 |
| 386 | The North American Multimodel Ensemble: Phase-1 Seasonal-to-Interannual Prediction; Phase-2 toward Developing Intraseasonal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 585-601 | 6.1 | 578 |
| 385 | Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2011 , 47, | 5.4 | 520 |
| 384 | Hydro-Climatological Trends in the Continental United States, 1948-88. <i>Journal of Climate</i> , 1994 , 7, 586-607 | 4.4 | 510 |
| 383 | Effects of spatial variability and scale with implications to hydrologic modeling. <i>Journal of Hydrology</i> , 1988 , 102, 29-47 | 6 | 492 |
| 382 | Bias correction of monthly precipitation and temperature fields from Intergovernmental Panel on Climate Change AR4 models using equidistant quantile matching. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 455 |
| 381 | Multiscale modeling of spatially variable water and energy balance processes. <i>Water Resources Research</i> , 1994 , 30, 3061-3078 | 5.4 | 440 |
| 380 | Global Trends and Variability in Soil Moisture and Drought Characteristics, 1950-2000, from Observation-Driven Simulations of the Terrestrial Hydrologic Cycle. <i>Journal of Climate</i> , 2008 , 21, 432-458 | 4.4 | 425 |

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| 379 | A land-surface hydrology parameterization with subgrid variability for general circulation models. <i>Journal of Geophysical Research</i> , 1992 , 97, 2717 | | 403 |
| 378 | Predicting the Discharge of Global Rivers. <i>Journal of Climate</i> , 2001 , 14, 3307-3323 | 4.4 | 390 |
| 377 | Continental-scale water and energy flux analysis and validation for the North American Land Data Assimilation System project phase 2 (NLDAS-2): 1. Intercomparison and application of model products. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 373 |
| 376 | The future of evapotranspiration: Global requirements for ecosystem functioning, carbon and climate feedbacks, agricultural management, and water resources. <i>Water Resources Research</i> , 2017 , 53, 2618-2626 | 5.4 | 344 |
| 375 | Global-scale evaluation of 22 precipitation datasets using gauge observations and hydrological modeling. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 6201-6217 | 5.5 | 337 |
| 374 | Streamflow simulation for continental-scale river basins. <i>Water Resources Research</i> , 1997 , 33, 711-724 | 5.4 | 334 |
| 373 | On hydrologic similarity: 2. A scaled model of storm runoff production. <i>Water Resources Research</i> , 1987 , 23, 2266-2278 | 5.4 | 327 |
| 372 | One-dimensional statistical dynamic representation of subgrid spatial variability of precipitation in the two-layer variable infiltration capacity model. <i>Journal of Geophysical Research</i> , 1996 , 101, 21403-21422 | | 325 |
| 371 | Global estimates of evapotranspiration for climate studies using multi-sensor remote sensing data: Evaluation of three process-based approaches. <i>Remote Sensing of Environment</i> , 2011 , 115, 801-823 | 13.2 | 318 |
| 370 | A Drought Monitoring and Forecasting System for Sub-Sahara African Water Resources and Food Security. <i>Bulletin of the American Meteorological Society</i> , 2014 , 95, 861-882 | 6.1 | 301 |
| 369 | The assimilation of remotely sensed soil brightness temperature imagery into a land surface model using Ensemble Kalman filtering: a case study based on ESTAR measurements during SGP97. <i>Advances in Water Resources</i> , 2003 , 26, 137-149 | 4.7 | 296 |
| 368 | Real-time and retrospective forcing in the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 284 |
| 367 | 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 |
| 366 | The Effect of Soil Thermal Conductivity Parameterization on Surface Energy Fluxes and Temperatures. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 1209-1224 | 2.1 | 272 |
| 365 | Global intercomparison of 12 land surface heat flux estimates. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 271 |
| 364 | Cabauw Experimental Results from the Project for Intercomparison of Land-Surface Parameterization Schemes. <i>Journal of Climate</i> , 1997 , 10, 1194-1215 | 4.4 | 271 |
| 363 | Characteristics of global and regional drought, 1950-2000: Analysis of soil moisture data from off-line simulation of the terrestrial hydrologic cycle. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 271 |
| 362 | Evaluation of global observations-based evapotranspiration datasets and IPCC AR4 simulations. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 267 |

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| 361 | A pan-arctic evaluation of changes in river discharge during the latter half of the 20th century. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 261 |
| 360 | Scale influences on the remote estimation of evapotranspiration using multiple satellite sensors. <i>Remote Sensing of Environment</i> , 2006 , 105, 271-285 | 13.2 | 260 |
| 359 | Twenty-three unsolved problems in hydrology (UPH) in a community perspective. <i>Hydrological Sciences Journal</i> , 2019 , 64, 1141-1158 | 3.5 | 259 |
| 358 | Anthropogenic warming exacerbates European soil moisture droughts. <i>Nature Climate Change</i> , 2018 , 8, 421-426 | 21.4 | 258 |
| 357 | MSWEP V2 Global 3-Hourly 0.1° Precipitation: Methodology and Quantitative Assessment. <i>Bulletin of the American Meteorological Society</i> , 2019 , 100, 473-500 | 6.1 | 257 |
| 356 | Benchmark products for land evapotranspiration: LandFlux-EVAL multi-data set synthesis. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 3707-3720 | 5.5 | 253 |
| 355 | Analysis of the Arctic System for Freshwater Cycle Intensification: Observations and Expectations. <i>Journal of Climate</i> , 2010 , 23, 5715-5737 | 4.4 | 253 |
| 354 | Photosynthetic seasonality of global tropical forests constrained by hydroclimate. <i>Nature Geoscience</i> , 2015 , 8, 284-289 | 18.3 | 251 |
| 353 | Global and Continental Drought in the Second Half of the Twentieth Century: Severity, Area, Duration Analysis and Temporal Variability of Large-Scale Events. <i>Journal of Climate</i> , 2009 , 22, 1962-1981 | 4.4 | 249 |
| 352 | Winter floods in Britain are connected to atmospheric rivers. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.4 | 243 |
| 351 | The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) Phase 2(c) Red Arkansas River basin experiment:: 1. Experiment description and summary intercomparisons. <i>Global and Planetary Change</i> , 1998 , 19, 115-135 | 4.2 | 243 |
| 350 | 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 |
| 349 | A simulated soil moisture based drought analysis for the United States. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 239 |
| 348 | The Future of Earth Observation in Hydrology. <i>Hydrology and Earth System Sciences</i> , 2017 , 21, 3879-3914 | 5.5 | 235 |
| 347 | Catchment geomorphology and the dynamics of runoff contributing areas. <i>Journal of Hydrology</i> , 1983 , 65, 139-158 | 6 | 231 |
| 346 | Estimation of the Generalized Extreme-Value Distribution by the Method of Probability-Weighted Moments | | 231 |
| 345 | Vegetation control on water and energy balance within the Budyko framework. <i>Water Resources Research</i> , 2013 , 49, 969-976 | 5.4 | 216 |
| 344 | Hyper-resolution global hydrological modelling: what is next?. <i>Hydrological Processes</i> , 2015 , 29, 310-320 | 3.3 | 215 |

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| 343 | Similarity and scale in catchment storm response. <i>Reviews of Geophysics</i> , 1990 , 28, 1 | 23.1 | 213 |
| 342 | The detection of atmospheric rivers in atmospheric reanalyses and their links to British winter floods and the large-scale climatic circulation. <i>Journal of Geophysical Research</i> , 2012 , 117, | | 200 |
| 341 | Evaluation of SMOS Soil Moisture Products Over Continental U.S. Using the SCAN/SNOTEL Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012 , 50, 1572-1586 | 8.1 | 197 |
| 340 | Decreasing river discharge in northern Canada. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 189 |
| 339 | Water Resources Implications of Global Warming: A U.S. Regional Perspective. <i>Climatic Change</i> , 1999 , 43, 537-579 | 4.5 | 187 |
| 338 | The energy balance over land and oceans: an assessment based on direct observations and CMIP5 climate models. <i>Climate Dynamics</i> , 2015 , 44, 3393-3429 | 4.2 | 185 |
| 337 | Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017 , 7, 432-436 | 21.4 | 181 |
| 336 | Correction of Global Precipitation Products for Orographic Effects. <i>Journal of Climate</i> , 2006 , 19, 15-38 | 4.4 | 176 |
| 335 | Surface radiation budgets in support of the GEWEX Continental-Scale International Project (GCIP) and the GEWEX Americas Prediction Project (GAPP), including the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 174 |
| 334 | Characteristics and Trends of River Discharge into Hudson, James, and Ungava Bays, 1964-2000. <i>Journal of Climate</i> , 2005 , 18, 2540-2557 | 4.4 | 173 |
| 333 | The WACMOS-ET project [Part 2: Evaluation of global terrestrial evaporation data sets. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 823-842 | 5.5 | 170 |
| 332 | Daily evaluation of 26 precipitation datasets using Stage-IV gauge-radar data for the CONUS. <i>Hydrology and Earth System Sciences</i> , 2019 , 23, 207-224 | 5.5 | 169 |
| 331 | Contaminated groundwater remediation design using simulation, optimization, and sensitivity theory: 1. Model development. <i>Water Resources Research</i> , 1988 , 24, 431-441 | 5.4 | 164 |
| 330 | The Observed State of the Water Cycle in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015 , 28, 8289-8318 | 4.4 | 162 |
| 329 | Inroads of remote sensing into hydrologic science during the WRR era. <i>Water Resources Research</i> , 2015 , 51, 7309-7342 | 5.4 | 162 |
| 328 | Observation operators for the direct assimilation of TRMM microwave imager retrieved soil moisture. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 162 |
| 327 | 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 |
| 326 | Application of a macroscale hydrologic model to estimate the water balance of the Arkansas-Red River Basin. <i>Journal of Geophysical Research</i> , 1996 , 101, 7449-7459 | | 160 |

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| 325 | Data Assimilation for Estimating the Terrestrial Water Budget Using a Constrained Ensemble Kalman Filter. <i>Journal of Hydrometeorology</i> , 2006 , 7, 534-547 | 3.7 | 156 |
| 324 | Multisource Estimation of Long-Term Terrestrial Water Budget for Major Global River Basins. <i>Journal of Climate</i> , 2012 , 25, 3191-3206 | 4.4 | 155 |
| 323 | Modeling Evapotranspiration during SMACEX: Comparing Two Approaches for Local- and Regional-Scale Prediction. <i>Journal of Hydrometeorology</i> , 2005 , 6, 910-922 | 3.7 | 155 |
| 322 | Closing the terrestrial water budget from satellite remote sensing. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a | 4.9 | 153 |
| 321 | Effect of regional heterogeneity on flood frequency estimation. <i>Water Resources Research</i> , 1987 , 23, 313-323 | 5.4 | 148 |
| 320 | An appraisal of the regional flood frequency procedure in the UK Flood Studies Report. <i>Hydrological Sciences Journal</i> , 1985 , 30, 85-109 | 3.5 | 148 |
| 319 | Detection of Intensification in Global- and Continental-Scale Hydrological Cycles: Temporal Scale of Evaluation. <i>Journal of Climate</i> , 2003 , 16, 535-547 | 4.4 | 145 |
| 318 | Evaluation of the North American Land Data Assimilation System over the southern Great Plains during the warm season. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 144 |
| 317 | High-performance Earth system modeling with NASA/GSFC's Land Information System. <i>Innovations in Systems and Software Engineering</i> , 2007 , 3, 157-165 | 1.1 | 143 |
| 316 | The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red Arkansas River basin experiment. <i>Global and Planetary Change</i> , 1998 , 19, 161-179 | 4.2 | 137 |
| 315 | Snow process modeling in the North American Land Data Assimilation System (NLDAS): 2. Evaluation of model simulated snow water equivalent. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 137 |
| 314 | POLARIS: A 30-meter probabilistic soil series map of the contiguous United States. <i>Geoderma</i> , 2016 , 274, 54-67 | 6.7 | 136 |
| 313 | Estimation of regional terrestrial water cycle using multi-sensor remote sensing observations and data assimilation. <i>Remote Sensing of Environment</i> , 2008 , 112, 1282-1294 | 13.2 | 133 |
| 312 | An efficient calibration method for continental-scale land surface modeling. <i>Water Resources Research</i> , 2008 , 44, | 5.4 | 131 |
| 311 | A first look at Climate Forecast System version 2 (CFSv2) for hydrological seasonal prediction. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 130 |
| 310 | Multiple Effects of Changes in Arctic Snow Cover. <i>Ambio</i> , 2011 , 40, 32-45 | 6.5 | 129 |
| 309 | Evaluation of multi-model simulated soil moisture in NLDAS-2. <i>Journal of Hydrology</i> , 2014 , 512, 107-125 | 6 | 128 |
| 308 | Streamflow and water balance intercomparisons of four land surface models in the North American Land Data Assimilation System project. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 126 |

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| 307 | Multi-model, multi-sensor estimates of global evapotranspiration: climatology, uncertainties and trends. <i>Hydrological Processes</i> , 2011 , 25, 3993-4010 | 3.3 | 124 |
| 306 | Observational evidence of an intensifying hydrological cycle in northern Canada. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 124 |
| 305 | Numerical evaluation of iterative and noniterative methods for the solution of the nonlinear Richards equation. <i>Water Resources Research</i> , 1991 , 27, 1147-1163 | 5.4 | 122 |
| 304 | Reconciling the global terrestrial water budget using satellite remote sensing. <i>Remote Sensing of Environment</i> , 2011 , 115, 1850-1865 | 13.2 | 121 |
| 303 | A soil-vegetation-atmosphere transfer scheme for modeling spatially variable water and energy balance processes. <i>Journal of Geophysical Research</i> , 1997 , 102, 4303-4324 | | 120 |
| 302 | Satellite Remote Sensing for Water Resources Management: Potential for Supporting Sustainable Development in Data-Poor Regions. <i>Water Resources Research</i> , 2018 , 54, 9724-9758 | 5.4 | 120 |
| 301 | HYDROLOGICAL MODELING OF CONTINENTAL-SCALE BASINS. <i>Annual Review of Earth and Planetary Sciences</i> , 1997 , 25, 279-300 | 15.3 | 119 |
| 300 | On hydrological heterogeneity [Catchment morphology and catchment response. <i>Journal of Hydrology</i> , 1988 , 100, 353-375 | 6 | 119 |
| 299 | The WACMOS-ET project [Part 1: Tower-scale evaluation of four remote-sensing-based evapotranspiration algorithms. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 803-822 | 5.5 | 119 |
| 298 | Soil moisture estimates from TRMM Microwave Imager observations over the Southern United States. <i>Remote Sensing of Environment</i> , 2003 , 85, 507-515 | 13.2 | 118 |
| 297 | A reversal in global terrestrial stilling and its implications for wind energy production. <i>Nature Climate Change</i> , 2019 , 9, 979-985 | 21.4 | 115 |
| 296 | Validation of the North American Land Data Assimilation System (NLDAS) retrospective forcing over the southern Great Plains. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 113 |
| 295 | Monitoring and predicting the 2007 U.S. drought. <i>Geophysical Research Letters</i> , 2007 , 34, | 4.9 | 111 |
| 294 | Multimodel seasonal forecasting of global drought onset. <i>Geophysical Research Letters</i> , 2013 , 40, 4900-4905 | 4.9 | 105 |
| 293 | CFSv2-Based Seasonal Hydroclimatic Forecasts over the Conterminous United States. <i>Journal of Climate</i> , 2013 , 26, 4828-4847 | 4.4 | 105 |
| 292 | Using TRMM/TMI to Retrieve Surface Soil Moisture over the Southern United States from 1998 to 2002. <i>Journal of Hydrometeorology</i> , 2006 , 7, 23-38 | 3.7 | 105 |
| 291 | The GEWEX LandFlux project: evaluation of model evaporation using tower-based and globally gridded forcing data. <i>Geoscientific Model Development</i> , 2016 , 9, 283-305 | 6.3 | 103 |
| 290 | Terrestrial hydrological controls on land surface phenology of African savannas and woodlands. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1652-1669 | 3.7 | 101 |

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| 289 | The Influence of Hydrologic Modeling on the Predicted Local Weather: Two-Way Coupling of a Mesoscale Weather Prediction Model and a Land Surface Hydrologic Model. <i>Journal of Hydrometeorology</i> , 2002 , 3, 505-523 | 3.7 | 100 |
| 288 | Bayesian merging of multiple climate model forecasts for seasonal hydrological predictions. <i>Journal of Geophysical Research</i> , 2007 , 112, | | 99 |
| 287 | ECOSTRESS: NASA's Next Generation Mission to Measure Evapotranspiration From the International Space Station. <i>Water Resources Research</i> , 2020 , 56, e2019WR026058 | 5.4 | 98 |
| 286 | Climate change alters low flows in Europe under global warming of 1.5, 2, and 3 °C. <i>Hydrology and Earth System Sciences</i> , 2018 , 22, 1017-1032 | 5.5 | 96 |
| 285 | The role of initial conditions and forcing uncertainties in seasonal hydrologic forecasting. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 95 |
| 284 | Evaluation of the Tropical Rainfall Measuring Mission Multi-Satellite Precipitation Analysis (TMPA) for assessment of large-scale meteorological drought. <i>Remote Sensing of Environment</i> , 2015 , 159, 181-193 ^{13.2} | | 94 |
| 283 | Estimating the water budget of major US river basins via remote sensing. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3955-3978 | 3.1 | 94 |
| 282 | Relative Accuracy of Log Pearson III Procedures. <i>Journal of Hydraulic Engineering</i> , 1985 , 111, 1043-1056 | 1.8 | 93 |
| 281 | Improving soil moisture retrievals from a physically-based radiative transfer model. <i>Remote Sensing of Environment</i> , 2014 , 140, 130-140 | 13.2 | 91 |
| 280 | Assessing the skill of satellite-based precipitation estimates in hydrologic applications. <i>Water Resources Research</i> , 2010 , 46, | 5.4 | 91 |
| 279 | Effects of Digital Elevation Model Accuracy on Hydrologic Predictions. <i>Remote Sensing of Environment</i> , 2000 , 74, 432-444 | 13.2 | 91 |
| 278 | A derived flood frequency distribution using Horton Order Ratios. <i>Water Resources Research</i> , 1982 , 18, 1509-1518 | 5.4 | 91 |
| 277 | A detailed model for simulation of catchment scale subsurface hydrologic processes. <i>Water Resources Research</i> , 1993 , 29, 1601-1620 | 5.4 | 90 |
| 276 | Comparison of Two Methods for Estimating the Sampling-Related Uncertainty of Satellite Rainfall Averages Based on a Large Radar Dataset. <i>Journal of Climate</i> , 2003 , 16, 3759-3778 | 4.4 | 89 |
| 275 | Global analysis of seasonal streamflow predictability using an ensemble prediction system and observations from 6192 small catchments worldwide. <i>Water Resources Research</i> , 2013 , 49, 2729-2746 | 5.4 | 87 |
| 274 | A review on climate-model-based seasonal hydrologic forecasting: physical understanding and system development. <i>Wiley Interdisciplinary Reviews: Water</i> , 2015 , 2, 523-536 | 5.7 | 86 |
| 273 | Snow process modeling in the North American Land Data Assimilation System (NLDAS): 1. Evaluation of model-simulated snow cover extent. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 83 |
| 272 | Evaluation of historical and future simulations of precipitation and temperature in central Africa from CMIP5 climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 130-152 | 4.4 | 82 |

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| 271 | Quantifying uncertainty in a remote sensing-based estimate of evapotranspiration over continental USA. <i>International Journal of Remote Sensing</i> , 2010 , 31, 3821-3865 | 3.1 | 82 |
| 270 | Use of Bayesian Merging Techniques in a Multimodel Seasonal Hydrologic Ensemble Prediction System for the Eastern United States. <i>Journal of Hydrometeorology</i> , 2008 , 9, 866-884 | 3.7 | 82 |
| 269 | Effects of Spatial Variability and Scale on Areally Averaged Evapotranspiration. <i>Water Resources Research</i> , 1995 , 31, 699-712 | 5.4 | 82 |
| 268 | Four decades of microwave satellite soil moisture observations: Part 1. A review of retrieval algorithms. <i>Advances in Water Resources</i> , 2017 , 109, 106-120 | 4.7 | 80 |
| 267 | Dynamic-Model-Based Seasonal Prediction of Meteorological Drought over the Contiguous United States. <i>Journal of Hydrometeorology</i> , 2012 , 13, 463-482 | 3.7 | 80 |
| 266 | Modeling ground heat flux in land surface parameterization schemes. <i>Journal of Geophysical Research</i> , 1999 , 104, 9581-9600 | | 80 |
| 265 | Highland cropland expansion and forest loss in Southeast Asia in the twenty-first century. <i>Nature Geoscience</i> , 2018 , 11, 556-562 | 18.3 | 80 |
| 264 | Global Reconstruction of Naturalized River Flows at 2.94 Million Reaches. <i>Water Resources Research</i> , 2019 , 55, 6499-6516 | 5.4 | 79 |
| 263 | The Project for Intercomparison of Land-surface Parameterization Schemes (PILPS) phase 2(c) Red-Arkansas River basin experiment:. <i>Global and Planetary Change</i> , 1998 , 19, 137-159 | 4.2 | 79 |
| 262 | Regional flood frequency estimation and network design. <i>Water Resources Research</i> , 1981 , 17, 1167-1173 | 3.4 | 79 |
| 261 | An initial assessment of SMAP soil moisture retrievals using high-resolution model simulations and in situ observations. <i>Geophysical Research Letters</i> , 2016 , 43, 9662-9668 | 4.9 | 79 |
| 260 | On the sources of global land surface hydrologic predictability. <i>Hydrology and Earth System Sciences</i> , 2013 , 17, 2781-2796 | 5.5 | 78 |
| 259 | An intercomparison of soil moisture fields in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2004 , 109, | | 78 |
| 258 | Drought | | 78 |
| 257 | Multi-model ensemble projections of European river floods and high flows at 1.5, 2, and 3 degrees global warming. <i>Environmental Research Letters</i> , 2018 , 13, 014003 | 6.2 | 77 |
| 256 | . <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2010 , 3, 111-123 | 4.7 | 77 |
| 255 | Copula-Derived Observation Operators for Assimilating TMI and AMSR-E Retrieved Soil Moisture into Land Surface Models. <i>Journal of Hydrometeorology</i> , 2007 , 8, 413-429 | 3.7 | 76 |
| 254 | Teleconnection between the Arctic Oscillation and Hudson Bay river discharge. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 76 |

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| 253 | Evapotranspiration and runoff from large land areas: Land surface hydrology for atmospheric general circulation models. <i>Surveys in Geophysics</i> , 1991 , 12, 179-204 | 7.6 | 76 |
| 252 | Seasonal Forecasting of Global Hydrologic Extremes: System Development and Evaluation over GEWEX Basins. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1895-1912 | 6.1 | 74 |
| 251 | Observed Land-Atmosphere Coupling from Satellite Remote Sensing and Reanalysis. <i>Journal of Hydrometeorology</i> , 2011 , 12, 1221-1254 | 3.7 | 73 |
| 250 | Bayesian inference and decision making for extreme hydrologic events. <i>Water Resources Research</i> , 1975 , 11, 533-542 | 5.4 | 72 |
| 249 | A Multiscale Ensemble Filtering System for Hydrologic Data Assimilation. Part I: Implementation and Synthetic Experiment. <i>Journal of Hydrometeorology</i> , 2009 , 10, 794-806 | 3.7 | 71 |
| 248 | A daily hydroclimatological data set for the continental United States. <i>Water Resources Research</i> , 1991 , 27, 1657-1663 | 5.4 | 71 |
| 247 | A Global Intercomparison of Modeled and Observed Land-Atmosphere Coupling*. <i>Journal of Hydrometeorology</i> , 2012 , 13, 749-784 | 3.7 | 70 |
| 246 | Land surface model spin-up behavior in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2003 , 108, | | 70 |
| 245 | An illustrative example of the use of multiattribute utility theory for water resource planning. <i>Water Resources Research</i> , 1977 , 13, 705-712 | 5.4 | 69 |
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