

Praveen Kumar

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139
papers

5,819
citations

39
h-index

72
g-index

145
ext. papers

6,653
ext. citations

5.5
avg, IF

6.12
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 139 | Wavelet analysis for geophysical applications. <i>Reviews of Geophysics</i> , 1997 , 35, 385-412 | 23.1 | 622 |
| 138 | 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 |
| 137 | The future of hydrology: An evolving science for a changing world. <i>Water Resources Research</i> , 2010 , 46, | 5.4 | 391 |
| 136 | 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 |
| 135 | Impact of Atmospheric Moisture Storage on Precipitation Recycling. <i>Journal of Climate</i> , 2006 , 19, 1513-1530 | 4.3 | 166 |
| 134 | A multicomponent decomposition of spatial rainfall fields: 1. Segregation of large- and small-scale features using wavelet transforms. <i>Water Resources Research</i> , 1993 , 29, 2515-2532 | 5.4 | 162 |
| 133 | Ecohydrologic process networks: 1. Identification. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 121 |
| 132 | A model for hydraulic redistribution incorporating coupled soil-root moisture transport. <i>Hydrology and Earth System Sciences</i> , 2008 , 12, 55-74 | 5.5 | 114 |
| 131 | Topographic Influence on the Seasonal and Interannual Variation of Water and Energy Balance of Basins in North America. <i>Journal of Climate</i> , 2001 , 14, 1989-2014 | 4.4 | 113 |
| 130 | Implications for the hydrologic cycle under climate change due to the expansion of bioenergy crops in the Midwestern United States. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 15085-90 | 11.5 | 104 |
| 129 | Precipitation Recycling Variability and Ecoclimatological Stability: A Study Using NARR Data. Part II: North American Monsoon Region. <i>Journal of Climate</i> , 2008 , 21, 5187-5203 | 4.4 | 93 |
| 128 | Mitigating land loss in coastal Louisiana by controlled diversion of Mississippi River sand. <i>Nature Geoscience</i> , 2012 , 5, 534-537 | 18.3 | 85 |
| 127 | A multicomponent decomposition of spatial rainfall fields: 2. Self-similarity in fluctuations. <i>Water Resources Research</i> , 1993 , 29, 2533-2544 | 5.4 | 83 |
| 126 | Typology of hydrologic predictability. <i>Water Resources Research</i> , 2011 , 47, | 5.4 | 79 |
| 125 | Decreasing, not increasing, leaf area will raise crop yields under global atmospheric change. <i>Global Change Biology</i> , 2017 , 23, 1626-1635 | 11.4 | 73 |
| 124 | Kinematic dispersion in stream networks 1. Coupling hydraulic and network geometry. <i>Water Resources Research</i> , 2002 , 38, 26-1-26-14 | 5.4 | 73 |
| 123 | Power law catchment-scale recessions arising from heterogeneous linear small-scale dynamics. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 72 |

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| 122 | Precipitation Recycling in the Indian Subcontinent during Summer Monsoon. <i>Journal of Hydrometeorology</i> , 2014 , 15, 2050-2066 | 3.7 | 68 |
| 121 | Simultaneous improvement in productivity, water use, and albedo through crop structural modification. <i>Global Change Biology</i> , 2014 , 20, 1955-67 | 11.4 | 68 |
| 120 | A data mining approach for understanding topographic control on climate-induced inter-annual vegetation variability over the United States. <i>Remote Sensing of Environment</i> , 2005 , 98, 1-20 | 13.2 | 65 |
| 119 | Precipitation Recycling Variability and Ecoclimatological StabilityA Study Using NARR Data. Part I: Central U.S. Plains Ecoregion. <i>Journal of Climate</i> , 2008 , 21, 5165-5186 | 4.4 | 62 |
| 118 | Interannual Variability of Deep-Layer Hydrologic Memory and Mechanisms of Its Influence on Surface Energy Fluxes. <i>Journal of Climate</i> , 2005 , 18, 5024-5045 | 4.4 | 59 |
| 117 | Role of Oceanic and Land Moisture Sources and Transport in the Seasonal and Interannual Variability of Summer Monsoon in India. <i>Journal of Climate</i> , 2017 , 30, 1839-1859 | 4.4 | 56 |
| 116 | Designing a network of critical zone observatories to explore the living skin of the terrestrial Earth. <i>Earth Surface Dynamics</i> , 2017 , 5, 841-860 | 3.8 | 52 |
| 115 | Legacy Effects in Material Flux: Structural Catchment Changes Predate Long-Term Studies. <i>BioScience</i> , 2012 , 62, 575-584 | 5.7 | 52 |
| 114 | Ecohydrologic process networks: 2. Analysis and characterization. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 52 |
| 113 | Critical transition in critical zone of intensively managed landscapes. <i>Anthropocene</i> , 2018 , 22, 10-19 | 3.9 | 49 |
| 112 | A multiple scale state-space model for characterizing subgrid scale variability of near-surface soil moisture. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1999 , 37, 182-197 | 8.1 | 49 |
| 111 | Coherent modes in multiscale variability of streamflow over the United States. <i>Water Resources Research</i> , 2000 , 36, 1049-1067 | 5.4 | 46 |
| 110 | Ecohydrological responses of dense canopies to environmental variability: 1. Interplay between vertical structure and photosynthetic pathway. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 45 |
| 109 | Three-dimensional volume-averaged soil moisture transport model with a scalable parameterization of subgrid topographic variability. <i>Water Resources Research</i> , 2007 , 43, | 5.4 | 44 |
| 108 | An environmental cost-benefit analysis of alternative green roofing strategies. <i>Ecological Engineering</i> , 2016 , 95, 1-9 | 3.9 | 44 |
| 107 | Temporal information partitioning: Characterizing synergy, uniqueness, and redundancy in interacting environmental variables. <i>Water Resources Research</i> , 2017 , 53, 5920-5942 | 5.4 | 43 |
| 106 | Climate, soil, and vegetation controls on the temporal variability of vadose zone transport. <i>Water Resources Research</i> , 2011 , 47, | 5.4 | 43 |
| 105 | Wavelet Analysis in Geophysics: An Introduction. <i>Wavelet Analysis and Its Applications</i> , 1994 , 4, 1-43 | | 42 |

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| 104 | The Role of Critical Zone Observatories in Critical Zone Science. <i>Developments in Earth Surface Processes</i> , 2015 , 15-78 | 2.8 | 41 |
| 103 | Water cycle dynamics in a changing environment: Improving predictability through synthesis. <i>Water Resources Research</i> , 2011 , 47, | 5.4 | 41 |
| 102 | Optimality approaches to describe characteristic fluvial patterns on landscapes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2010 , 365, 1387-95 | 5.8 | 40 |
| 101 | Role of Terrestrial Hydrologic Memory in Modulating ENSO Impacts in North America. <i>Journal of Climate</i> , 2002 , 15, 3569-3585 | 4.4 | 40 |
| 100 | Surface Boundary Conditions for Mesoscale Regional Climate Models. <i>Earth Interactions</i> , 2005 , 9, 1-28 | 1.5 | 39 |
| 99 | Kinematic dispersion in stream networks 2. Scale issues and self-similar network organization. <i>Water Resources Research</i> , 2002 , 38, 27-1-27-15 | 5.4 | 39 |
| 98 | Information Driven Ecohydrologic Self-Organization. <i>Entropy</i> , 2010 , 12, 2085-2096 | 2.8 | 38 |
| 97 | Impacts of hydraulic redistribution on grass-tree competition vs facilitation in a semi-arid savanna. <i>New Phytologist</i> , 2017 , 215, 1451-1461 | 9.8 | 37 |
| 96 | Power law scaling of topographic depressions and their hydrologic connectivity. <i>Geophysical Research Letters</i> , 2014 , 41, 1553-1559 | 4.9 | 36 |
| 95 | The influence of photosynthetic acclimation to rising CO ₂ and warmer temperatures on leaf and canopy photosynthesis models. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 194-206 | 5.9 | 35 |
| 94 | Competitive and mutualistic dependencies in multispecies vegetation dynamics enabled by hydraulic redistribution. <i>Water Resources Research</i> , 2012 , 48, | 5.4 | 35 |
| 93 | Assimilation of near-surface temperature using extended Kalman filter. <i>Advances in Water Resources</i> , 2003 , 26, 79-93 | 4.7 | 35 |
| 92 | A probability-weighted moment test to assess simple scaling. <i>Stochastic Hydrology & Hydraulics</i> , 1994 , 8, 173-183 | | 35 |
| 91 | Hydrocomplexity: Addressing water security and emergent environmental risks. <i>Water Resources Research</i> , 2015 , 51, 5827-5838 | 5.4 | 34 |
| 90 | NVAP and Reanalysis-2 Global Precipitable Water Products : Intercomparison and Variability Studies. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 245-256 | 6.1 | 34 |
| 89 | Assessment of floodplain vulnerability during extreme Mississippi River flood 2011. <i>Environmental Science & Technology</i> , 2014 , 48, 2619-25 | 10.3 | 33 |
| 88 | Temporal Information Partitioning Networks (TIPNets): A process network approach to infer ecohydrologic shifts. <i>Water Resources Research</i> , 2017 , 53, 5899-5919 | 5.4 | 33 |
| 87 | Role of Oceanic and Terrestrial Atmospheric Moisture Sources in Intraseasonal Variability of Indian Summer Monsoon Rainfall. <i>Scientific Reports</i> , 2017 , 7, 12729 | 4.9 | 32 |

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| 86 | GPU-based high-performance computing for integrated surface-sub-surface flow modeling. <i>Environmental Modelling and Software</i> , 2015 , 73, 1-13 | 5.2 | 32 |
| 85 | Hydrogeomorphological differentiation between floodplains and terraces. <i>Earth Surface Processes and Landforms</i> , 2018 , 43, 218-228 | 3.7 | 32 |
| 84 | A Conjunctive Surface-Subsurface Flow Representation for Mesoscale Land Surface Models. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1421-1442 | 3.7 | 31 |
| 83 | A wavelet based methodology for scale-space anisotropic analysis. <i>Geophysical Research Letters</i> , 1995 , 22, 2777-2780 | 4.9 | 30 |
| 82 | Variability, Feedback, and Cooperative Process Dynamics: Elements of a Unifying Hydrologic Theory. <i>Geography Compass</i> , 2007 , 1, 1338-1360 | 2.4 | 29 |
| 81 | Patterns of change in high frequency precipitation variability over North America. <i>Scientific Reports</i> , 2017 , 7, 10853 | 4.9 | 28 |
| 80 | Passive regulation of soil biogeochemical cycling by root water transport. <i>Water Resources Research</i> , 2013 , 49, 3729-3746 | 5.4 | 28 |
| 79 | Kinematic dispersion effects of hillslope velocities. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 28 |
| 78 | A service-oriented architecture for coupling web service models using the Basic Model Interface (BMI). <i>Environmental Modelling and Software</i> , 2017 , 92, 107-118 | 5.2 | 27 |
| 77 | Numerical simulations of hydraulic redistribution across climates: The role of the root hydraulic conductivities. <i>Water Resources Research</i> , 2015 , 51, 8529-8550 | 5.4 | 27 |
| 76 | Hydrodynamic and geomorphologic dispersion: scale effects in the Illinois River Basin. <i>Journal of Hydrology</i> , 2004 , 288, 237-257 | 6 | 26 |
| 75 | A New Look at Rainfall Fluctuations and Scaling Properties of Spatial Rainfall Using Orthogonal Wavelets. <i>Journal of Applied Meteorology and Climatology</i> , 1993 , 32, 209-222 | | 25 |
| 74 | Assessing the value of seasonal climate forecast information through an end-to-end forecasting framework: Application to U.S. 2012 drought in central Illinois. <i>Water Resources Research</i> , 2014 , 50, 6592-6609 | 5.4 | 24 |
| 73 | Functional Topology of Evolving Urban Drainage Networks. <i>Water Resources Research</i> , 2017 , 53, 8966-8979 | 5.4 | 24 |
| 72 | Emergence of self-similar tree network organization. <i>Complexity</i> , 2008 , 13, 30-37 | 1.6 | 24 |
| 71 | Ecohydrological responses of dense canopies to environmental variability: 2. Role of acclimation under elevated CO ₂ . <i>Journal of Geophysical Research</i> , 2010 , 115, | | 23 |
| 70 | Layer averaged Richard's equation with lateral flow. <i>Advances in Water Resources</i> , 2004 , 27, 521-531 | 4.7 | 23 |
| 69 | Steering operational synergies in terrestrial observation networks: opportunity for advancing Earth system dynamics modelling. <i>Earth System Dynamics</i> , 2018 , 9, 593-609 | 4.8 | 23 |

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| 68 | Dynamic process connectivity explains ecohydrologic responses to rainfall pulses and drought. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8604-E8613 | 11.5 | 21 |
| 67 | Critical Zone services as environmental assessment criteria in intensively managed landscapes. <i>Earth's Future</i> , 2017 , 5, 617-632 | 7.9 | 21 |
| 66 | Threshold dynamics in soil carbon storage for bioenergy crops. <i>Environmental Science & Technology</i> , 2014 , 48, 12090-8 | 10.3 | 20 |
| 65 | Interaction Between Ecohydrologic Dynamics and Microtopographic Variability Under Climate Change. <i>Water Resources Research</i> , 2017 , 53, 8383-8403 | 5.4 | 20 |
| 64 | Hydraulic geometry and the nonlinearity of the network instantaneous response. <i>Water Resources Research</i> , 2004 , 40, | 5.4 | 19 |
| 63 | Basin level statistical properties of topographic index for North America. <i>Advances in Water Resources</i> , 2000 , 23, 571-578 | 4.7 | 19 |
| 62 | Role of coherent structures in the stochastic-dynamic variability of precipitation. <i>Journal of Geophysical Research</i> , 1996 , 101, 26393-26404 | | 19 |
| 61 | Incorporating Reanalysis-Based Short-Term Forecasts from a Regional Climate Model in an Irrigation Scheduling Optimization Problem. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 699-713 | 2.8 | 17 |
| 60 | The Intensively Managed Landscape Critical Zone Observatory: A Scientific Testbed for Understanding Critical Zone Processes in Agroecosystems. <i>Vadose Zone Journal</i> , 2018 , 17, 1-21 | 2.7 | 17 |
| 59 | Characterizing Vegetation Canopy Structure Using Airborne Remote Sensing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017 , 55, 1160-1178 | 8.1 | 16 |
| 58 | Predicting the direct and indirect impacts of climate change on malaria in coastal Kenya. <i>PLoS ONE</i> , 2019 , 14, e0211258 | 3.7 | 16 |
| 57 | A Modeling Study of the ENSO Influence on the Terrestrial Energy Profile in North America. <i>Journal of Climate</i> , 2004 , 17, 1657-1670 | 4.4 | 16 |
| 56 | Towards Sustainable Curation and Preservation: The SEAD Project's Data Services Approach 2015 , | | 15 |
| 55 | A graphical user interface for numerical modeling of acclimation responses of vegetation to climate change. <i>Computers and Geosciences</i> , 2012 , 49, 91-101 | 4.5 | 15 |
| 54 | Emergent and divergent resilience behavior in catastrophic shift systems. <i>Ecological Modelling</i> , 2015 , 298, 87-105 | 3 | 14 |
| 53 | Mean age distribution of inorganic soil-nitrogen. <i>Water Resources Research</i> , 2016 , 52, 5516-5536 | 5.4 | 14 |
| 52 | A model for hydraulic redistribution incorporating coupled soil-root moisture transport | | 14 |
| 51 | Impact of Hydraulic Redistribution on Multispecies Vegetation Water Use in a Semiarid Savanna Ecosystem: An Experimental and Modeling Synthesis. <i>Water Resources Research</i> , 2018 , 54, 4009-4027 | 5.4 | 13 |

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| 50 | Role of Micro-Topographic Variability on the Distribution of Inorganic Soil-Nitrogen Age in Intensively Managed Landscape. <i>Water Resources Research</i> , 2017 , 53, 8404-8422 | 5.4 | 12 |
| 49 | Impacts of Subsurface Tile Drainage on Age-Dependent Concentration Dynamics of Inorganic Nitrogen in Soil. <i>Water Resources Research</i> , 2019 , 55, 1470-1489 | 5.4 | 12 |
| 48 | Wetlandscape Fractal Topography. <i>Geophysical Research Letters</i> , 2018 , 45, 6983-6991 | 4.9 | 12 |
| 47 | SEAD Virtual Archive: Building a Federation of Institutional Repositories for Long-Term Data Preservation in Sustainability Science. <i>International Journal of Digital Curation</i> , 2013 , 8, 172-180 | 0.9 | 12 |
| 46 | Debates Does Information Theory Provide a New Paradigm for Earth Science? Causality, Interaction, and Feedback. <i>Water Resources Research</i> , 2020 , 56, e2019WR024940 | 5.4 | 11 |
| 45 | Information Theoretic Measures to Infer Feedback Dynamics in Coupled Logistic Networks. <i>Entropy</i> , 2015 , 17, 7468-7492 | 2.8 | 11 |
| 44 | 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 |
| 43 | Mapping subsurface tile drainage systems with thermal images. <i>Agricultural Water Management</i> , 2019 , 218, 94-101 | 5.9 | 10 |
| 42 | . <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015 , 53, 5133-5147 | 8.1 | 10 |
| 41 | Brown Dog: Leveraging everything towards autocuration 2015 , | | 10 |
| 40 | Three-Dimensional Modeling of the Coevolution of Landscape and Soil Organic Carbon. <i>Water Resources Research</i> , 2019 , 55, 1218-1241 | 5.4 | 9 |
| 39 | Comment on Climate and agricultural land use change impacts on streamflow in the upper midwestern United States by Satish C. Gupta et al.. <i>Water Resources Research</i> , 2016 , 52, 7536-7539 | 5.4 | 9 |
| 38 | Signatures of Hydrologic Function Across the Critical Zone Observatory Network. <i>Water Resources Research</i> , 2021 , 57, e2019WR026635 | 5.4 | 9 |
| 37 | Impacts of Quaternary History on Critical Zone Structure and Processes: Examples and a Conceptual Model From the Intensively Managed Landscapes Critical Zone Observatory. <i>Frontiers in Earth Science</i> , 2018 , 6, | 3.5 | 8 |
| 36 | Inevitable self-similar topology of binary trees and their diverse hierarchical density. <i>European Physical Journal B</i> , 2007 , 60, 247-258 | 1.2 | 8 |
| 35 | Field trials to detect drainage pipe networks using thermal and RGB data from unmanned aircraft. <i>Agricultural Water Management</i> , 2020 , 229, 105895 | 5.9 | 8 |
| 34 | Modeling the Role of Root Exudation in Critical Zone Nutrient Dynamics. <i>Water Resources Research</i> , 2020 , 56, e2019WR026606 | 5.4 | 8 |
| 33 | Power-Law Behavior in Geometric Characteristics of Full Binary Trees. <i>Journal of Statistical Physics</i> , 2011 , 142, 862-878 | 1.5 | 7 |

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| 32 | Information transfer from causal history in complex system dynamics. <i>Physical Review E</i> , 2019 , 99, 0123064 | 6.4 | 7 |
| 31 | A Numerical Water Tracer Model for Understanding Event-Scale Hydrometeorological Phenomena. <i>Journal of Hydrometeorology</i> , 2018 , 19, 947-967 | 3.7 | 6 |
| 30 | Hydrologic Applications of MRAN Algorithm. <i>Journal of Hydrologic Engineering - ASCE</i> , 2007 , 12, 124-129 | 1.8 | 6 |
| 29 | Estimating Transmissivity from the Water Level Fluctuations of a Sinusoidally Forced Well. <i>Ground Water</i> , 1999 , 37, 855-860 | 2.4 | 6 |
| 28 | The Power of Environmental Observatories for Advancing Multidisciplinary Research, Outreach, and Decision Support: The Case of the Minnesota River Basin. <i>Water Resources Research</i> , 2019 , 55, 3576-3592 | 5.4 | 5 |
| 27 | A new dynamic wetness index (DWI) predicts soil moisture persistence and correlates with key indicators of surface soil geochemistry. <i>Geoderma</i> , 2020 , 368, 114239 | 6.7 | 5 |
| 26 | Stochastic lattice-based modelling of malaria dynamics. <i>Malaria Journal</i> , 2018 , 17, 250 | 3.6 | 5 |
| 25 | Sustainable long term scientific data publication: Lessons learned from a prototype Observatory Information System for the Illinois River Basin. <i>Environmental Modelling and Software</i> , 2014 , 54, 73-87 | 5.2 | 5 |
| 24 | Identification and characterization of information-networks in long-tail data collections. <i>Environmental Modelling and Software</i> , 2017 , 94, 100-111 | 5.2 | 4 |
| 23 | Predicting the Water Requirement for Rice Production as Affected by Projected Climate Change in Bihar, India. <i>Water (Switzerland)</i> , 2020 , 12, 3312 | 3 | 4 |
| 22 | Interactions of information transfer along separable causal paths. <i>Physical Review E</i> , 2018 , 97, 042310 | 2.4 | 4 |
| 21 | Radiocarbon and Stable Carbon Isotopes of Labile and Inert Organic Carbon in the Critical Zone Observatory in Illinois, USA. <i>Radiocarbon</i> , 2018 , 60, 989-999 | 4.6 | 4 |
| 20 | Characterizing relative degrees of clumping structure in vegetation canopy using waveform LiDAR. <i>Remote Sensing of Environment</i> , 2019 , 232, 111281 | 13.2 | 4 |
| 19 | Reply to comment by J. Szilagyi on Power law catchment-scale recessions arising from heterogeneous linear small-scale dynamics. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 4 |
| 18 | Sustainability of soil organic carbon in consolidated gully land in China's Loess Plateau. <i>Scientific Reports</i> , 2020 , 10, 16927 | 4.9 | 4 |
| 17 | An Architecture for Automatic Deployment of Brown Dog Services at Scale into Diverse Computing Infrastructures 2016 , | | 4 |
| 16 | Using Information Flow for Whole System Understanding From Component Dynamics. <i>Water Resources Research</i> , 2019 , 55, 8305-8329 | 5.4 | 4 |
| 15 | AVHRR estimates of surface temperature during the Southern Great Plains 1997 Experiment. <i>Journal of Geophysical Research</i> , 2000 , 105, 20791-20801 | | 3 |

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| 14 | Impact of irrigation scheduling methods on corn yield under climate change. <i>Agricultural Water Management</i> , 2021 , 255, 106990 | 5.9 | 3 |
| 13 | A Changing Climatology of Precipitation Persistence across the United States Using Information-Based Measures. <i>Journal of Hydrometeorology</i> , 2019 , 20, 1649-1666 | 3.7 | 2 |
| 12 | Brown Dog 2018 , | | 2 |
| 11 | Autocuration Cyberinfrastructure for Scientific Discovery and Preservation 2015 , | | 2 |
| 10 | A Framework for Global Characterization of Soil Properties Using Repeat Hyperspectral Satellite Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 3308-3323 | 8.1 | 2 |
| 9 | Hydrologic Dispersion in Fluvial Networks 2008 , 307-335 | | 1 |
| 8 | Impacts of Landscape Evolution on Heterotrophic Carbon Loss in Intensively Managed Landscapes. <i>Frontiers in Water</i> , 2021 , 3, | 2.6 | 1 |
| 7 | Convergent Hydraulic Redistribution and Groundwater Access Supported Facilitative Dependency Between Trees and Grasses in a Semi-Arid Environment. <i>Water Resources Research</i> , 2021 , 57, e2020WR028103 | 5.4 | 1 |
| 6 | Virtual laboratory for understanding impact of heterogeneity on ecohydrologic processes across scales. <i>Environmental Modelling and Software</i> , 2022 , 149, 105283 | 5.2 | 0 |
| 5 | Discerning the thermodynamic feasibility of the spontaneous coexistence of multiple functional vegetation groups. <i>Scientific Reports</i> , 2020 , 10, 18321 | 4.9 | 0 |
| 4 | Hydraulic redistribution buffers climate variability and regulates grass-tree interactions in a semiarid riparian savanna. <i>Ecohydrology</i> , 2021 , 14, e2271 | 2.5 | 0 |
| 3 | Advances in Biogeochemical Modeling for Intensively Managed Landscapes 2022 , 145-169 | | 0 |
| 2 | Reply to comment by Talbot et al. on [layer averaged Richards] equation with lateral flow] <i>Advances in Water Resources</i> , 2004 , 27, 1043-1044 | 4.7 | |
| 1 | A Multicomponent Self-Similar Characterization of Rainfall Fluctuations. <i>The IMA Volumes in Mathematics and Its Applications</i> , 1996 , 239-254 | 0.5 | |