

# Murugesu Sivapalan

## List of Publications by Year in descending order

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276  
papers

26,759  
citations

5378

80  
h-index

7171

147  
g-index

360  
all docs

360  
docs citations

360  
times ranked

12978  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | On the regional-scale variability in flow duration curves in Peninsular India. <i>Hydrology and Earth System Sciences</i> , 2024, 28, 1493-1514.                                  | 4.9 | 0         |
| 2  | A diagnostic approach to modeling watersheds with human interference. <i>Journal of Hydrology</i> , 2024, , 131823.   | 5.5 | 0         |
| 3  | Evolution of Drought Mitigation and Water Security Through 100 Years of Reservoir Expansion in Semi-Arid Brazil. <i>Water Resources Research</i> , 2024, 60, .                    | 4.1 | 0         |
| 4  | Unfolding the complexity in water reallocation decision-making in the Heihe River Basin, China. <i>International Journal of Water Resources Development</i> , 2023, 39, 576-594.  | 2.1 | 0         |
| 5  | Cooperation in a transboundary river basin: a large-scale socio-hydrological model of the Eastern Nile. <i>Hydrology and Earth System Sciences</i> , 2023, 27, 1201-1219.         | 4.9 | 3         |
| 6  | Groundwater Vulnerability in a Megacity Under Climate and Economic Changes: A Coupled Sociohydrological Analysis. <i>Water Resources Research</i> , 2023, 59, .                   | 4.1 | 1         |
| 7  | Desiccation of a saline lake as a lock-in phenomenon: A socio-hydrological perspective. <i>Science of the Total Environment</i> , 2022, 811, 152347.                              | 8.1 | 12        |
| 8  | Ageing Knowledge Structure in Global River Basins. <i>Frontiers in Environmental Science</i> , 2022, 10, .  | 3.3 | 1         |
| 9  | A socio-hydrological framework for understanding conflict and cooperation with respect to transboundary rivers. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 2131-2146. | 4.9 | 8         |
| 10 | Data-Guided Exploration of the Energy Partitioning at Land Surface in the Contiguous US. <i>Water Resources Research</i> , 2022, 58, .  | 4.1 | 0         |
| 11 | On capturing human agency and methodological interdisciplinarity in socio-hydrology research. <i>Hydrological Sciences Journal</i> , 2022, 67, 1905-1916.                         | 2.6 | 10        |
| 12 | Socio-hydrologic modeling of the dynamics of cooperation in the transboundary Lancang-Mekong River. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 1883-1903.             | 4.9 | 33        |
| 13 | Critical drought intensity-duration-frequency curves based on total probability theorem-coupled frequency analysis. <i>Hydrological Sciences Journal</i> , 2021, 66, 1337-1358.   | 2.6 | 42        |
| 14 | Regional Patterns and Physical Controls of Streamflow Generation Across the Conterminous United States. <i>Water Resources Research</i> , 2021, 57, e2020WR028086.                | 4.1 | 30        |
| 15 | Interconnected governance and social barriers impeding the restoration process of Lake Urmia. <i>Journal of Hydrology</i> , 2021, 598, 126489.                                    | 5.5 | 24        |
| 16 | Illuminating water cycle modifications and Earth system resilience in the Anthropocene. <i>Water Resources Research</i> , 2020, 56, e2019WR024957.                                | 4.1 | 100       |
| 17 | A New Framework for Exploring Process Controls of Flow Duration Curves. <i>Water Resources Research</i> , 2020, 56, e2019WR026083.  | 4.1 | 20        |
| 18 | Hydrological Basis of the Budyko Curve: Data-Guided Exploration of the Mediating Role of Soil Moisture. <i>Water Resources Research</i> , 2020, 56, e2020WR028221.                | 4.1 | 14        |

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|----|--|-----|-----------|
| 19 | Synergistic Impacts of Rainfall Variability and Land Use Heterogeneity on Nitrate Retention in River Networks: Exacerbation or Compensation?. <i>Water Resources Research</i> , 2020, 56, e2018WR024226. | 4.1 | 3         |
| 20 | Socio-hydrology: an interplay of design and self-organization in a multilevel world. <i>Ecology and Society</i> , 2020, 25, .  | 2.2 | 20        |
| 21 | Long-Term Coevolution of an Urban Human-Water System Under Climate Change: Critical Role of Human Adaptive Actions. <i>Water Resources Research</i> , 2020, 56, e2020WR027931.                           | 4.1 | 12        |
| 22 | Climate and Landscape Controls of Regional Patterns of Flow Duration Curves Across the Continental United States: Statistical Approach. <i>Water Resources Research</i> , 2020, 56, e2020WR028041.       | 4.1 | 12        |
| 23 | From hard-path to soft-path solutions: slow-fast dynamics of human adaptation to droughts in a water scarce environment. <i>Hydrological Sciences Journal</i> , 2020, 65, 1803-1814.                     | 2.6 | 30        |
| 24 | The Water Planetary Boundary: Interrogation and Revision. <i>One Earth</i> , 2020, 2, 223-234.   | 6.7 | 105       |
| 25 | Iron-Gallium and Cobalt-Gallium Tetraphosphido Complexes. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020, 646, 552-557.  | 1.2 | 4         |
| 26 | Assessment of Climate, Sizing, and Location Controls on Green Infrastructure Efficacy: A Timescale Framework. <i>Water Resources Research</i> , 2020, 56, e2019WR026141.                                 | 4.1 | 10        |
| 27 | Sustainability of agricultural basin development under uncertain future climate and economic conditions: A socio-hydrological analysis. <i>Ecological Economics</i> , 2020, 174, 106665.                 | 5.8 | 18        |
| 28 | Sociohydrology: Scientific Challenges in Addressing the Sustainable Development Goals. <i>Water Resources Research</i> , 2019, 55, 6327-6355.  | 4.1 | 263       |
| 29 | Recurrent Snowmelt Pattern Synthesis Using Principal Component Analysis of Multiyear Remotely Sensed Snow Cover. <i>Water Resources Research</i> , 2019, 55, 6869-6885.                                  | 4.1 | 10        |
| 30 | An Urban Sociohydrologic Model for Exploration of Beijing's Water Sustainability Challenges and Solution Spaces. <i>Water Resources Research</i> , 2019, 55, 5918-5940.                                  | 4.1 | 32        |
| 31 | Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.   | 2.6 | 556       |
| 32 | Dynamics and driving mechanisms of asymmetric human water consumption during alternating wet and dry periods. <i>Hydrological Sciences Journal</i> , 2019, 64, 507-524.                                  | 2.6 | 18        |
| 33 | Expanding the Scope and Foundation of Sociohydrology as the Science of Coupled Human-Water Systems. <i>Water Resources Research</i> , 2019, 55, 874-887.   | 4.1 | 56        |
| 34 | Temporal and Spatial Signatures of Sediment Transport at the Watershed Scale: An Approach to Understand the Behavior of the Watershed. <i>Tecnología Y Ciencias Del Agua</i> , 2019, 10, 18-45.          | 0.3 | 2         |
| 35 | Time Compression Approximation Relationship for Infiltration in the Presence of a Shallow Water Table: Evaluating the Role of Péclet Number. <i>Water Resources Research</i> , 2018, 54, 9384-9397.      | 4.1 | 3         |
| 36 | Reconstructing Early Hydrologic Change in the California Delta and its Watersheds. <i>Water Resources Research</i> , 2018, 54, 7767-7790.  | 4.1 | 6         |

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|----|--|-----|-----------|
| 37 | A Budyko-type model for human water consumption. <i>Journal of Hydrology</i> , 2018, 567, 212-226.   | 5.5 | 23        |
| 38 | Norms and values in sociohydrological models. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1337-1349.  | 4.9 | 47        |
| 39 | Multiscale temporal variability of flow-sediment relationships during the 1950s–2014 in the Loess Plateau, China. <i>Journal of Hydrology</i> , 2018, 563, 609-619.  | 5.5 | 45        |
| 40 | A framework for modelling the complexities of food and water security under globalisation. <i>Earth System Dynamics</i> , 2018, 9, 103-118.  | 6.9 | 30        |
| 41 | From engineering hydrology to Earth system science: milestones in the transformation of hydrologic science. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1665-1693.  | 4.9 | 72        |
| 42 | Scaling properties of food flow networks. <i>PLoS ONE</i> , 2018, 13, e0199498.  | 2.5 | 28        |
| 43 | Moving socio-hydrologic modelling forward: unpacking hidden assumptions, values and model structure by engaging with stakeholders: reply to ‘‘What is the role of the model in socio-hydrology?’’. <i>Hydrological Sciences Journal</i> , 2018, 63, 1444-1446. | 2.6 | 12        |
| 44 | Allocating Environmental Water and Impact on Basin Unemployment: Role of A Diversified Economy. <i>Ecological Economics</i> , 2017, 136, 178-188.  | 5.8 | 45        |
| 45 | Progress in socio-hydrology: a meta-analysis of challenges and opportunities. <i>Wiley Interdisciplinary Reviews: Water</i> , 2017, 4, e1193.  | 7.0 | 126       |
| 46 | Characterization of regional variability of seasonal water balance within Omo-Ghibe River Basin, Ethiopia. <i>Hydrological Sciences Journal</i> , 2017, 62, 1200-1215.   | 2.6 | 23        |
| 47 | A dynamic framework for water security. <i>Water Security</i> , 2017, 1, 12-20.  | 2.5 | 129       |
| 48 | A Stochastic Water Balance Framework for Lowland Watersheds. <i>Water Resources Research</i> , 2017, 53, 9564-9579.  | 4.1 | 10        |
| 49 | Role of Sectoral Transformation in the Evolution of Water Management Norms in Agricultural Catchments: A Sociohydrologic Modeling Analysis. <i>Water Resources Research</i> , 2017, 53, 8344-8365.   | 4.1 | 36        |
| 50 | Understanding the Role of Climate Characteristics in Drought Propagation. <i>Water Resources Research</i> , 2017, 53, 9304-9329.   | 4.1 | 154       |
| 51 | The Growth of Hydrological Understanding: Technologies, Ideas, and Societal Needs Shape the Field. <i>Water Resources Research</i> , 2017, 53, 8137-8146.  | 4.1 | 48        |
| 52 | Scaling Dissolved Nutrient Removal in River Networks: A Comparative Modeling Investigation. <i>Water Resources Research</i> , 2017, 53, 9623-9641.   | 4.1 | 22        |
| 53 | Human–water interface in hydrological modelling: current status and future directions. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4169-4193.   | 4.9 | 185       |
| 54 | Spatio-temporal patterns of the effects of precipitation variability and land use/cover changes on long-term changes in sediment yield in the Loess Plateau, China. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 4363-4378.                          | 4.9 | 46        |

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|----|--|-----|-----------|
| 55 | A scaling approach to Budyko's framework and the complementary relationship of evapotranspiration in humid environments: case study of the Amazon River basin. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 589-603.                 | 4.9 | 27        |
| 56 | Water resources sustainability in a globalizing world: who uses the water?. <i>Hydrological Processes</i> , 2016, 30, 3330-3336.   | 2.5 | 60        |
| 57 | Unifying catchment water balance models for different time scales through the maximum entropy production principle. <i>Water Resources Research</i> , 2016, 52, 7503-7512.   | 4.1 | 31        |
| 58 | Adaptation of water resources systems to changing society and environment: a statement by the International Association of Hydrological Sciences. <i>Hydrological Sciences Journal</i> , 2016, 61, 2803-2817.                                  | 2.6 | 64        |
| 59 | Dominant flood generating mechanisms across the United States. <i>Geophysical Research Letters</i> , 2016, 43, 4382-4390.  | 3.9 | 336       |
| 60 | From channelization to restoration: Sociohydrologic modeling with changing community preferences in the Kissimmee River Basin, Florida. <i>Water Resources Research</i> , 2016, 52, 1227-1244.   | 4.1 | 66        |
| 61 | Sensitivity of emergent sociohydrologic dynamics to internal system properties and external sociopolitical factors: Implications for water management. <i>Water Resources Research</i> , 2016, 52, 4944-4966.                                  | 4.1 | 27        |
| 62 | Debates—Perspectives on sociohydrology: Changing water systems and the tyranny of small problems—Sociohydrology. <i>Water Resources Research</i> , 2015, 51, 4795-4805.  | 4.1 | 119       |
| 63 | Time scale interactions and the coevolution of humans and water. <i>Water Resources Research</i> , 2015, 51, 6988-7022.  | 4.1 | 225       |
| 64 | Using an optimality model to understand medium and long-term responses of vegetation water use to elevated atmospheric CO <sub>2</sub> concentrations. <i>AoB PLANTS</i> , 2015, 7, plv060.  | 2.4 | 21        |
| 65 | A conceptual socio-hydrological model of the co-evolution of humans and water: case study of the Tarim River basin, western China. <i>Hydrology and Earth System Sciences</i> , 2015, 19, 1035-1054.   | 4.9 | 68        |
| 66 | A thermodynamic interpretation of Budyko and L'vovich formulations of annual water balance: Proportionality Hypothesis and maximum entropy production. <i>Water Resources Research</i> , 2015, 51, 3007-3016.                                  | 4.1 | 42        |
| 67 | A model of the sociohydrologic dynamics in a semiarid catchment: Isolating feedbacks in the coupled humanhydrology system. <i>Water Resources Research</i> , 2015, 51, 6442-6471.  | 4.1 | 65        |
| 68 | Socio-hydrologic modeling to understand and mediate the competition for water between agriculture development and environmental health: Murrumbidgee River basin, Australia. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 4239-4259. | 4.9 | 143       |
| 69 | Functional approach to exploring climatic and landscape controls on runoff generation: 2 Timing of runoff storm response. <i>Water Resources Research</i> , 2014, 50, 9323-9342.   | 4.1 | 9         |
| 70 | Socio-hydrologic drivers of the pendulum swing between agricultural development and environmental health: a case study from Murrumbidgee River basin, Australia. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1027-1041.             | 4.9 | 118       |
| 71 | Groundwater dynamics under water-saving irrigation and implications for sustainable water management in an oasis: Tarim River basin of western China. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3951-3967.                        | 4.9 | 76        |
| 72 | Advancing catchment hydrology to deal with predictions under change. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 649-671.   | 4.9 | 84        |

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|----|---|-----|-----------|
| 73 | Characterizing hydrologic change through catchment classification. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 273-285.  | 4.9 | 77        |
| 74 | A prototype framework for models of socio-hydrology: identification of key feedback loops and parameterisation approach. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 2141-2166.  | 4.9 | 176       |
| 75 | Socio-hydrologic perspectives of the co-evolution of humans and water in the Tarim River basin, Western China: the Taijiâ€Tire model. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 1289-1303.                               | 4.9 | 112       |
| 76 | Endogenous technological and population change under increasing water scarcity. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3239-3258.   | 4.9 | 20        |
| 77 | Functional approach to exploring climatic and landscape controls of runoff generation: 1. Behavioral constraints on runoff volume. <i>Water Resources Research</i> , 2014, 50, 9300-9322.   | 4.1 | 34        |
| 78 | Regionalization of subsurface stormflow parameters of hydrologic models: Up-scaling from physically based numerical simulations at hillslope scale. <i>Journal of Hydrology</i> , 2014, 519, 683-698.                                 | 5.5 | 14        |
| 79 | Regionalization of subsurface stormflow parameters of hydrologic models: Derivation from regional analysis of streamflow recession curves. <i>Journal of Hydrology</i> , 2014, 519, 670-682.  | 5.5 | 35        |
| 80 | Patterns of similarity of seasonal water balances: A window into streamflow variability over a range of time scales. <i>Water Resources Research</i> , 2014, 50, 5638-5661.   | 4.1 | 180       |
| 81 | Patterns of regional hydroclimatic shifts: An analysis of changing hydrologic regimes. <i>Water Resources Research</i> , 2014, 50, 1960-1983.   | 4.1 | 46        |
| 82 | Links between flood frequency and annual water balance behaviors: A basis for similarity and regionalization. <i>Water Resources Research</i> , 2014, 50, 937-953.  | 4.1 | 40        |
| 83 | Socioâ€Hydrology: Useâ€Inspired water sustainability science for the Anthropocene. <i>Earth's Future</i> , 2014, 2, 225-230.  | 6.1 | 277       |
| 84 | Spatial patterns of vegetation, soils, and microtopography from terrestrial laser scanning on two semiarid hillslopes of contrasting lithology. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014, 119, 163-180.        | 2.9 | 40        |
| 85 | An integrated modeling framework for exploring flow regime and water quality changes with increasing biofuel crop production in the <sc>U.S.</sc> <sc>C</sc>orn <sc>B</sc>elt. <i>Water Resources Research</i> , 2014, 50, 9385-9404. | 4.1 | 31        |
| 86 | Regional patterns of interannual variability of catchment water balances across the continental U.S.: A Budyko framework. <i>Water Resources Research</i> , 2014, 50, 9177-9193.  | 4.1 | 69        |
| 87 | Using similarity of soil texture and hydroclimate to enhance soil moisture estimation. <i>Hydrology and Earth System Sciences</i> , 2014, 18, 3095-3107.  | 4.9 | 14        |
| 88 | Assessing the impact of climate and land use changes on extreme floods in a large tropical catchment. <i>Journal of Hydrology</i> , 2013, 490, 88-105.  | 5.5 | 58        |
| 89 | A decade of Predictions in Ungauged Basins (PUB)â€a review. <i>Hydrological Sciences Journal</i> , 2013, 58, 1198-1255.   | 2.6 | 866       |
| 90 | â€Panta Rheiâ€ Everything Flowsâ€ Change in hydrology and societyâ€The IAHS Scientific Decade 2013â€2022. <i>Hydrological Sciences Journal</i> , 2013, 58, 1256-1275.   | 2.6 | 593       |

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|-----|--|-----|-----------|
| 91  | Comparative assessment of predictions in ungauged basins " Part 2: Flood and low flow studies. Hydrology and Earth System Sciences, 2013, 17, 2637-2652.   | 4.9 | 101       |
| 92  | Prediction of floods in ungauged basins. , 2013, , 189-226.  |     | 25        |
| 93  | Developing predictive insight into changing water systems: use-inspired hydrologic science for the Anthropocene. Hydrology and Earth System Sciences, 2013, 17, 5013-5039.   | 4.9 | 122       |
| 94  | Comparative assessment of predictions in ungauged basins " Part 3: Runoff signatures in Austria. Hydrology and Earth System Sciences, 2013, 17, 2263-2279.   | 4.9 | 97        |
| 95  | Climate-vegetation-soil interactions and long-term hydrologic partitioning: signatures of catchment co-evolution. Hydrology and Earth System Sciences, 2013, 17, 2209-2217.  | 4.9 | 149       |
| 96  | Soil moisture controls on patterns of grass green-up in Inner Mongolia: an index based approach. Hydrology and Earth System Sciences, 2013, 17, 805-815.   | 4.9 | 73        |
| 97  | Comparative assessment of predictions in ungauged basins " Part 1: Runoff-hydrograph studies. Hydrology and Earth System Sciences, 2013, 17, 1783-1795.  | 4.9 | 191       |
| 98  | Linking Eco-Energetics and Eco-Hydrology to Select Sites for the Assisted Colonization of Australia's Rarest Reptile. Biology, 2013, 2, 1-25.  | 2.9 | 62        |
| 99  | Comparative analysis of hydrologic signatures in two agricultural watersheds in east-central Illinois: legacies of the past to inform the future. Hydrology and Earth System Sciences, 2013, 17, 4607-4623.              | 4.9 | 17        |
| 100 | Intra-annual rainfall variability control on interannual variability of catchment water balance: A stochastic analysis. Water Resources Research, 2012, 48, .  | 4.1 | 25        |
| 101 | Dissolved nutrient retention dynamics in river networks: A modeling investigation of transient flows and scale effects. Water Resources Research, 2012, 48, .  | 4.1 | 47        |
| 102 | Reply to comment by Keith J. Beven and Hannah L. Cloke on "Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water". Water Resources Research, 2012, 48, .      | 4.1 | 26        |
| 103 | Effect of storm movement on flood peaks: Analysis framework based on characteristic timescales. Water Resources Research, 2012, 48, .  | 4.1 | 35        |
| 104 | A network model for prediction and diagnosis of sediment dynamics at the watershed scale. Journal of Geophysical Research, 2012, 117, .  | 3.2 | 42        |
| 105 | Exploring the physical controls of regional patterns of flow duration curves " Part 2: Role of seasonality, the regime curve, and associated process controls. Hydrology and Earth System Sciences, 2012, 16, 4447-4465. | 4.9 | 77        |
| 106 | Exploring the physical controls of regional patterns of flow duration curves " Part 3: A catchment classification system based on regime curve indicators. Hydrology and Earth System Sciences, 2012, 16, 4467-4482.     | 4.9 | 106       |
| 107 | Incorporating student-centered approaches into catchment hydrology teaching: a review and synthesis. Hydrology and Earth System Sciences, 2012, 16, 3263-3278.   | 4.9 | 23        |
| 108 | Assessing the impact of climate variability on catchment water balance and vegetation cover. Hydrology and Earth System Sciences, 2012, 16, 43-58.   | 4.9 | 32        |



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|-----|--|-----|-----------|
| 109 | Exploring the physical controls of regional patterns of flow duration curves “ Part 1: Insights from statistical analyses. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4435-4446.   | 4.9 | 106       |
| 110 | Exploring the physical controls of regional patterns of flow duration curves “ Part 4: A synthesis of empirical analysis, process modeling and catchment classification. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 4483-4498. | 4.9 | 89        |
| 111 | Model diagnostic analysis of seasonal switching of runoff generation mechanisms in the Blue River basin, Oklahoma. <i>Journal of Hydrology</i> , 2012, 418-419, 136-149.   | 5.5 | 44        |
| 112 | Comparative diagnostic analysis of runoff generation processes in Oklahoma DMIP2 basins: The Blue River and the Illinois River. <i>Journal of Hydrology</i> , 2012, 418-419, 90-109.   | 5.5 | 57        |
| 113 | Results of the DMIP 2 Oklahoma experiments. <i>Journal of Hydrology</i> , 2012, 418-419, 17-48.  | 5.5 | 98        |
| 114 | Sociohydrology: A new science of people and water. <i>Hydrological Processes</i> , 2012, 26, 1270-1276.  | 2.5 | 864       |
| 115 | Statistical downscaling of extreme daily precipitation, evaporation, and temperature and construction of future scenarios. <i>Hydrological Processes</i> , 2012, 26, 3510-3523.  | 2.5 | 67        |
| 116 | Functional model of water balance variability at the catchment scale: 1. Evidence of hydrologic similarity and space-time symmetry. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 125       |
| 117 | Functional model of water balance variability at the catchment scale: 2. Elasticity of fast and slow runoff components to precipitation change in the continental United States. <i>Water Resources Research</i> , 2011, 47, .             | 4.1 | 62        |
| 118 | Effect of spatial heterogeneity of runoff generation mechanisms on the scaling behavior of event runoff responses in a natural river basin. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 45        |
| 119 | Comparative hydrology across AmeriFlux sites: The variable roles of climate, vegetation, and groundwater. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 98        |
| 120 | Quantifying the role of climate and landscape characteristics on hydrologic partitioning and vegetation response. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 76        |
| 121 | Spatiotemporal scaling of hydrological and agrochemical export dynamics in a tile-drained Midwestern watershed. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 80        |
| 122 | Spatial scale dependence of ecohydrologically mediated water balance partitioning: A synthesis framework for catchment ecohydrology. <i>Water Resources Research</i> , 2011, 47, .   | 4.1 | 144       |
| 123 | Hyperresolution global land surface modeling: Meeting a grand challenge for monitoring Earth's terrestrial water. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 660       |
| 124 | Climate, soil, and vegetation controls on the temporal variability of vadose zone transport. <i>Water Resources Research</i> , 2011, 47, .   | 4.1 | 50        |
| 125 | Spatiotemporal averaging of in-stream solute removal dynamics. <i>Water Resources Research</i> , 2011, 47, .   | 4.1 | 48        |
| 126 | Water cycle dynamics in a changing environment: Improving predictability through synthesis. <i>Water Resources Research</i> , 2011, 47, .  | 4.1 | 45        |



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|-----|---|-----|-----------|
| 127 | Catchment classification: empirical analysis of hydrologic similarity based on catchment function in the eastern USA. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2895-2911.             | 4.9 | 420       |
| 128 | HESS Opinions: Hydrologic predictions in a changing environment: behavioral modeling. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 635-646.   | 4.9 | 82        |
| 129 | Towards reconstruction of the flow duration curve: development of a conceptual framework with a physical basis. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 2805-2819.                   | 4.9 | 112       |
| 130 | Catchment classification: hydrological analysis of catchment behavior through process-based modeling along a climate gradient. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 3411-3430.    | 4.9 | 111       |
| 131 | Water and nutrient balances in a large tile-drained agricultural catchment: a distributed modeling study. <i>Hydrology and Earth System Sciences</i> , 2010, 14, 2259-2275.                         | 4.9 | 45        |
| 132 | A subordinated kinematic wave equation for heavy-tailed flow responses from heterogeneous hillslopes. <i>Journal of Geophysical Research</i> , 2010, 115, .   | 3.2 | 20        |
| 133 | Stochastic characterization of the onset of and recovery from hypoxia in Tokyo Bay, Japan: Derived distribution analysis based on strong wind events. <i>Water Resources Research</i> , 2010, 46, . | 4.1 | 41        |
| 134 | The future of hydrology: An evolving science for a changing world. <i>Water Resources Research</i> , 2010, 46, .  | 4.1 | 507       |
| 135 | Blazing New Paths for Inter disciplinary Hydrology. <i>Eos</i> , 2010, 91, 53-54.   | 0.1 | 5         |
| 136 | Nutrient loads exported from managed catchments reveal emergent biogeochemical stationarity. <i>Geophysical Research Letters</i> , 2010, 37, .  | 3.9 | 350       |
| 137 | Ecohydrological responses of dense canopies to environmental variability: 1. Interplay between vertical structure and photosynthetic pathway. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.2 | 62        |
| 138 | Ecohydrological responses of dense canopies to environmental variability: 2. Role of acclimation under elevated CO <sub>2</sub> . <i>Journal of Geophysical Research</i> , 2010, 115, .             | 3.2 | 29        |
| 139 | Identifying a rainfall event threshold triggering herbicide leaching by preferential flow. <i>Water Resources Research</i> , 2010, 46, .  | 4.1 | 38        |
| 140 | Threshold behaviour in hydrological systems as (human) geo-ecosystems: manifestations, controls, implications. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 1273-1297.                    | 4.9 | 185       |
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