

Erin Brooks

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,774
citations

304368

22
h-index

301761

39
g-index

72
all docs

72
docs citations

72
times ranked

2079
citing authors

#	ARTICLE	IF	CITATIONS
1	Pi-VAT: A web-based visualization tool for decision support using spatially complex water quality model outputs. <i>Journal of Hydrology</i> , 2022, 607, 127529.	2.3	8
2	WEPPcloud: An online watershed-scale hydrologic modeling tool. Part II. Model performance assessment and applications to forest management and wildfires. <i>Journal of Hydrology</i> , 2022, 610, 127776.	2.3	9
3	P&FLUX: A phosphorus budget dataset spanning diverse agricultural production systems in the United States and Canada. <i>Journal of Environmental Quality</i> , 2022, 51, 451-461.	1.0	4
4	WEPPcloud: An online watershed-scale hydrologic modeling tool. Part I. Model description. <i>Journal of Hydrology</i> , 2022, 608, 127603.	2.3	9
5	WEPPcloud hydrologic and erosion simulation datasets from 28 watersheds in US Pacific Northwest and calibrating model parameters for undisturbed and disturbed forest management conditions. <i>Data in Brief</i> , 2022, 42, 108251.	0.5	1
6	Effectiveness of post-fire salvage logging stream buffer management for hillslope erosion in the <sc>U.S.</sc> Inland Northwest Mountains. <i>Hydrological Processes</i> , 2021, 35, .	1.1	8
7	Evaluating the effects of timber harvest on hydrologically sensitive areas and hydrologic response. <i>Journal of Hydrology</i> , 2021, 593, 125805.	2.3	7
8	Long-term response in nutrient load from commercial forest management operations in a mountainous watershed. <i>Forest Ecology and Management</i> , 2021, 494, 119312.	1.4	5
9	Tracing $\delta^{18}O$ and δ^2H in Source Waters and Recharge Pathways of a Fractured-Basalt and Interbedded-Sediment Aquifer, Columbia River Flood Basalt Province. <i>Geosciences (Switzerland)</i> , 2021, 11, 400.	1.0	6
10	Modeling forest management effects on water and sediment yield from nested, paired watersheds in the interior Pacific Northwest, USA using WEPP. <i>Science of the Total Environment</i> , 2020, 701, 134877.	3.9	24
11	Noble gases, dead carbon, and reinterpretation of groundwater ages and travel time in local aquifers of the Columbia River Basalt Group. <i>Journal of Hydrology</i> , 2020, 581, 124400.	2.3	8
12	Sources and subsurface transport of dissolved reactive phosphorus in a semiarid, no-till catchment with complex topography. <i>Journal of Environmental Quality</i> , 2020, 49, 1286-1297.	1.0	4
13	Evaluating post-wildfire logging slash cover treatment to reduce hillslope erosion after salvage logging using ground measurements and remote sensing. <i>Hydrological Processes</i> , 2020, 34, 4431-4445.	1.1	29
14	Comparative analysis of water budgets across the U.S. long-term agroecosystem research network. <i>Journal of Hydrology</i> , 2020, 588, 125021.	2.3	24
15	Interaction of wind and cold-season hydrologic processes on erosion from complex topography following wildfire in sagebrush steppe. <i>Earth Surface Processes and Landforms</i> , 2020, 45, 841-861.	1.2	10
16	Mining the Drilosphere: Bacterial Communities and Denitrifier Abundance in a No-Till Wheat Cropping System. <i>Frontiers in Microbiology</i> , 2019, 10, 1339.	1.5	24
17	Development and application of the soil moisture routing (SMR) model to identify subfield-scale hydrologic classes in dryland cropping systems using the Budyko framework. <i>Journal of Hydrology</i> , 2019, 573, 153-167.	2.3	4
18	Isotopic Discrimination of Aquifer Recharge Sources, Subsystem Connectivity and Flow Patterns in the South Fork Palouse River Basin, Idaho and Washington, USA. <i>Hydrology</i> , 2019, 6, 15.	1.3	7

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19	Effects of land use on soil properties and hydrological processes at the point, plot, and catchment scale in volcanic soils near Turrialba, Costa Rica. <i>Geoderma</i> , 2018, 315, 138-148.	2.3	35
20	Simulating field-scale variability and precision management with a 3D hydrologic cropping systems model. <i>Precision Agriculture</i> , 2018, 19, 293-313.	3.1	8
21	Evaluating opportunities for an increased role of winter crops as adaptation to climate change in dryland cropping systems of the U.S. Inland Pacific Northwest. <i>Climatic Change</i> , 2018, 146, 247-261.	1.7	41
22	A Simulation Study to Estimate Effects of Wildfire and Forest Management on Hydrology and Sediment in a Forested Watershed, Northwestern U.S.. <i>Transactions of the ASABE</i> , 2018, 61, 1579-1601.	1.1	19
23	Filter Membrane Effects on Water-Extractable Phosphorus Concentrations from Soil. <i>Journal of Environmental Quality</i> , 2018, 47, 378-382.	1.0	0
24	Water and nitrogen movement through a semiarid dryland agricultural catchment: Seasonal and decadal trends. <i>Hydrological Processes</i> , 2017, 31, 1889-1899.	1.1	8
25	A pragmatic, automated approach for retroactive calibration of soil moisture sensors using a two-step, soil-specific correction. <i>Computers and Electronics in Agriculture</i> , 2017, 137, 29-40.	3.7	19
26	A Field-Scale Sensor Network Data Set for Monitoring and Modeling the Spatial and Temporal Variation of Soil Water Content in a Dryland Agricultural Field. <i>Water Resources Research</i> , 2017, 53, 10878-10887.	1.7	26
27	Effects of Climatic Conditions and Management Practices on Agricultural Carbon and Water Budgets in the Inland Pacific Northwest USA. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 3142-3160.	1.3	14
28	On the Role of Spatial, Temporal, and Climatic Forces on Stream Sediment Loading from Rural and Urban Ecosystems. <i>Journal of the American Water Resources Association</i> , 2017, 53, 1195-1211.	1.0	3
29	DESIGNING EROSION AND NUTRIENT CONTROL PRACTICES IN WATERSHEDS IN HUMID REGIONS: LESSONS LEARNED. , 2017, , .		0
30	Impact of Climate Change Adaptation Strategies on Winter Wheat and Cropping System Performance across Precipitation Gradients in the Inland Pacific Northwest, USA. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	13
31	Integrating Historic Agronomic and Policy Lessons with New Technologies to Drive Farmer Decisions for Farm and Climate: The Case of Inland Pacific Northwestern U.S.. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	12
32	Carbon and Water Budgets in Multiple Wheat-Based Cropping Systems in the Inland Pacific Northwest US: Comparison of CropSyst Simulations with Eddy Covariance Measurements. <i>Frontiers in Ecology and Evolution</i> , 2017, 5, .	1.1	11
33	Modeling Streamflow in a Snow-Dominated Forest Watershed Using the Water Erosion Prediction Project (WEPP) Model. <i>Transactions of the ASABE</i> , 2017, 60, 1171-1187.	1.1	14
34	Key drivers controlling stable isotope variations in daily precipitation of Costa Rica: Caribbean Sea versus Eastern Pacific Ocean moisture sources. <i>Quaternary Science Reviews</i> , 2016, 131, 250-261.	1.4	68
35	Identifying groundwater recharge connections in the Moscow (USA) sub-basin using isotopic tracers and a soil moisture routing model. <i>Hydrogeology Journal</i> , 2016, 24, 1739-1751.	0.9	9
36	Assessing carbon and water dynamics of no-till and conventional tillage cropping systems in the inland Pacific Northwest US using the eddy covariance method. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 37-49.	1.9	52

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37	Watershed-scale evaluation of the Water Erosion Prediction Project (WEPP) model in the Lake Tahoe basin. <i>Journal of Hydrology</i> , 2016, 533, 389-402.	2.3	37
38	Assessing carbon dynamics at high and low rainfall agricultural sites in the inland Pacific Northwest US using the eddy covariance method. <i>Agricultural and Forest Meteorology</i> , 2016, 218-219, 25-36.	1.9	28
39	Hydrologic control of dissolved organic matter concentration and quality in a semiarid artificially drained agricultural catchment. <i>Water Resources Research</i> , 2015, 51, 8146-8164.	1.7	15
40	Isotope hydrology and baseflow geochemistry in natural and human-altered watersheds in the Inland Pacific Northwest, USA. <i>Isotopes in Environmental and Health Studies</i> , 2015, 51, 231-254.	0.5	37
41	Variable Source Area Hydrology Modeling with the Water Erosion Prediction Project Model. <i>Journal of the American Water Resources Association</i> , 2015, 51, 330-342.	1.0	21
42	Agricultural <sc>BMP</sc> Effectiveness and Dominant Hydrological Flow Paths: Concepts and a Review. <i>Journal of the American Water Resources Association</i> , 2015, 51, 305-329.	1.0	51
43	Assessing BMP Effectiveness and Guiding BMP Planning Using Process-Based Modeling. <i>Journal of the American Water Resources Association</i> , 2015, 51, 343-358.	1.0	16
44	Featured Collection Introduction: Synthesis and Analysis of Conservation Effects Assessment Projects for Improved Water Quality. <i>Journal of the American Water Resources Association</i> , 2015, 51, 302-304.	1.0	1
45	Enhancements to the Water Erosion Prediction Project (WEPP) for Modeling Large Snow-Dominated Mountainous Forest Watersheds. , 2015, , .		2
46	Ecohydrological analysis of Steelhead (<i>Oncorhynchus mykiss</i>) habitat in an effluent dependent stream in the Pacific Northwest, USA. <i>Ecohydrology</i> , 2014, 7, 557-568.	1.1	4
47	Model for Prioritizing Best Management Practice Implementation: Sediment Load Reduction. <i>Environmental Management</i> , 2013, 51, 209-224.	1.2	32
48	Modifying WEPP to Improve Streamflow Simulation in a Pacific Northwest Watershed. <i>Transactions of the ASABE</i> , 2013, 56, 603-611.	1.1	14
49	Spatial and Temporal Variation of Stable Isotopes in Precipitation across Costa Rica: An Analysis of Historic GNIP Records. <i>Open Journal of Modern Hydrology</i> , 2013, 03, 226-240.	0.4	45
50	Hydropedology in Seasonally Dry Landscapes. , 2012, , 329-350.		12
51	A Simple Process-Based Snowmelt Routine to Model Spatially Distributed Snow Depth and Snowmelt in the SWAT Model¹. <i>Journal of the American Water Resources Association</i> , 2012, 48, 1151-1161.	1.0	21
52	Groundwater recharge in Pleistocene sediments overlying basalt aquifers in the Palouse Basin, USA: modeling of distributed recharge potential and identification of water pathways. <i>Hydrogeology Journal</i> , 2011, 19, 489-500.	0.9	12
53	Snow cover analysis in Emilia-Romagna. <i>European Journal of Remote Sensing</i> , 2011, , 59-73.	0.2	3
54	WEPP simulations of dryland cropping systems in small drainages of northeastern Oregon. <i>Journal of Soils and Water Conservation</i> , 2010, 65, 22-33.	0.8	8

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55	Development and testing of a physically based, three-dimensional model of surface and subsurface hydrology. <i>Advances in Water Resources</i> , 2010, 33, 106-122.	1.7	58
56	Dynamic riparian buffer widths from potential non-point source pollution areas in forested watersheds. <i>Forest Ecology and Management</i> , 2008, 256, 664-673.	1.4	28
57	Linking fragipans, perched water tables, and catchment-scale hydrological processes. <i>Catena</i> , 2008, 73, 166-173.	2.2	76
58	Distributed and integrated response of a geographic information system-based hydrologic model in the eastern Palouse region, Idaho. <i>Hydrological Processes</i> , 2007, 21, 110-122.	1.1	42
59	Soil Heterogeneity and the Hydrology of the High Precipitation Zone of the Palouse Region. , 2006, , .		0
60	Global Positioning System/GIS-Based Approach for Modeling Erosion from Large Road Networks. <i>Journal of Hydrologic Engineering - ASCE</i> , 2006, 11, 418-426.	0.8	12
61	Process-based snowmelt modeling: does it require more input data than temperature-index modeling?. <i>Journal of Hydrology</i> , 2005, 300, 65-75.	2.3	141
62	Application of SMR to Modeling Watersheds in the Catskill Mountains. <i>Environmental Modeling and Assessment</i> , 2004, 9, 77-89.	1.2	51
63	A hillslope-scale experiment to measure lateral saturated hydraulic conductivity. <i>Water Resources Research</i> , 2004, 40, .	1.7	111
64	Application of two hydrologic models with different runoff mechanisms to a hillslope dominated watershed in the northeastern US: a comparison of HSPF and SMR. <i>Journal of Hydrology</i> , 2003, 284, 57-76.	2.3	111
65	HYDROLOGIC PROCESSES IN VALLEY SOILSCAPES OF THE EASTERN PALOUSE BASIN IN NORTHERN IDAHO. <i>Soil Science</i> , 2003, 168, 846-855.	0.9	13
66	Title is missing!. <i>Biogeochemistry</i> , 2001, 55, 293-310.	1.7	13
67	Water Distribution Management in Small West African Canal Systems. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2000, 126, 304-313.	0.6	2
68	Seasonal Risk Analysis for Floodplains in the Delaware River Basin. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2000, 126, 320-329.	1.3	5
69	A GIS-based variable source area hydrology model. <i>Hydrological Processes</i> , 1999, 13, 805-822.	1.1	179
70	Impacts of Historical Changes in Land Use and Dairy Herds on Water Quality in the Catskills Mountains. <i>Journal of Environmental Quality</i> , 1998, 27, 1410-1417.	1.0	10