

# K J Devito

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,058  
citations

218677  
26  
h-index

243625  
44  
g-index

64  
all docs

64  
docs citations

64  
times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Landscape controls of surface-water/groundwater interactions on shallow outwash lakes: how the long-term groundwater signal overrides interannual variability due to evaporative effects. <i>Hydrogeology Journal</i> , 2022, 30, 251-264.	2.1	2
2	Changes in geographical runoff generation in regions affected by climate and resource development: A case study of the Athabasca River. <i>Journal of Hydrology: Regional Studies</i> , 2022, 39, 100981.	2.4	6
3	Ecological impacts of shortening fire return intervals on boreal peatlands and transition zones using integrated in situ field sampling and lidar approaches. <i>Ecohydrology</i> , 2022, 15, .	2.4	4
4	Untangling harvestâ€streamflow responses in foothills conifer forests: Nexus of teleconnections, summerâ€dominated precipitation, and storage. <i>Hydrological Processes</i> , 2022, 36, .	2.6	6
5	The waterscape continuum concept: Rethinking boundaries in ecosystems. <i>Wiley Interdisciplinary Reviews: Water</i> , 2022, 9, .	6.5	6
6	The influence of system heterogeneity on peat-surface temperature dynamics. <i>Environmental Research Letters</i> , 2021, 16, 024002.	5.2	3
7	Regulation of peatland evaporation following wildfire; the complex control of soil tension under dynamic evaporation demand. <i>Hydrological Processes</i> , 2021, 35, e14132.	2.6	5
8	Emerging forestâ€peatland bistability and resilience of European peatland carbon stores. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	18
9	Hummock-scale controls on groundwater recharge rates and the potential for developing local groundwater flow systems in water-limited environments. <i>Journal of Hydrology</i> , 2021, 603, 126894.	5.4	2
10	Characteristics of Dissolved Organic Carbon in Boreal Lakes: High Spatial and Interâ€Annual Variability Controlled by Landscape Attributes and Wetâ€Dry Periods. <i>Water Resources Research</i> , 2021, 57, .	4.2	8
11	Effects of Topographic Resolution and Geologic Setting on Spatial Statistical River Temperature Models. <i>Water Resources Research</i> , 2020, 56, e2020WR028122.	4.2	25
12	Climateâ€change refugia in boreal North America: what, where, and for how long?. <i>Frontiers in Ecology and the Environment</i> , 2020, 18, 261-270.	4.0	91
13	Remote Sensing of Boreal Wetlands 1: Data Use for Policy and Management. <i>Remote Sensing</i> , 2020, 12, 1320.	4.0	17
14	Improved groundwater table and L-band brightness temperature estimates for Northern Hemisphere peatlands using new model physics and SMOS observations in a global data assimilation framework. <i>Remote Sensing of Environment</i> , 2020, 246, 111805.	11.0	19
15	Forestland-peatland hydrologic connectivity in water-limited environments: hydraulic gradients often oppose topography. <i>Environmental Research Letters</i> , 2020, 15, 034021.	5.2	18
16	Opportunistic wetland formation on reconstructed landforms in a sub-humid climate: influence of site and landscape-scale factors. <i>Wetlands Ecology and Management</i> , 2019, 27, 587-608.	1.5	10
17	Evaluating How Landform Design and Soil Covers Influence Groundwater Recharge in a Reclaimed Watershed. <i>Water Resources Research</i> , 2019, 55, 6464-6481.	4.2	11
18	PEATâ€CLSM: A Specific Treatment of Peatland Hydrology in the NASA Catchment Land Surface Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2130-2162.	3.8	40

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19	SAR and Lidar Temporal Data Fusion Approaches to Boreal Wetland Ecosystem Monitoring. Remote Sensing, 2019, 11, 161.	4.0	41
20	Hydraulic redistribution and hydrological controls on aspen transpiration and establishment in peatlands following wildfire. Hydrological Processes, 2019, 33, 2714-2728.	2.6	7
21	Severe wildfire exposes remnant peat carbon stocks to increased post-fire drying. Scientific Reports, 2019, 9, 3727.	3.3	17
22	The influence of landscape characteristics on the spatial variability of river temperatures. Catena, 2019, 177, 70-83.	5.0	35
23	Interactions Between Regional Climate, Surficial Geology, and Topography: Characterizing Shallow Groundwater Systems in Subhumid, Low-Relief Landscapes. Water Resources Research, 2019, 55, 284-297.	4.2	21
24	Disturbance Impacts on Thermal Hot Spots and Hot Moments at the Peatland-Atmosphere Interface. Geophysical Research Letters, 2018, 45, 185-193.	4.0	8
25	Hydrologic impact of aspen harvesting within the subhumid Boreal Plains of Alberta. Hydrological Processes, 2018, 32, 3924-3937.	2.6	5
26	Potential influence of climate change on ecosystems within the Boreal Plains of Alberta. Hydrological Processes, 2017, 31, 2110-2124.	2.6	34
27	Low Evapotranspiration Enhances the Resilience of Peatland Carbon Stocks to Fire. Geophysical Research Letters, 2017, 44, 9341-9349.	4.0	21
28	Landscape controls on long-term runoff in subhumid heterogeneous Boreal Plains catchments. Hydrological Processes, 2017, 31, 2737-2751.	2.6	53
29	Peat depth as a control on moss water availability under evaporative stress. Hydrological Processes, 2017, 31, 4107-4121.	2.6	14
30	Utikuma Region Study Area (URSA) – Part 1: Hydrogeological and ecohydrological studies (HEAD). Forestry Chronicle, 2016, 92, 57-61.	0.6	21
31	Moss and peat hydraulic properties are optimized to maximize peatland water use efficiency. Ecohydrology, 2016, 9, 1039-1051.	2.4	24
32	Groundwater connectivity controls peat burn severity in the boreal plains. Ecohydrology, 2016, 9, 574-584.	2.4	53
33	Moving beyond bioclimatic envelope models: integrating upland forest and peatland processes to predict ecosystem transitions under climate change in the western Canadian boreal plain. Ecohydrology, 2016, 9, 899-908.	2.4	32
34	Constructing fen peatlands in post-mining oil sands landscapes: Challenges and opportunities from a hydrological perspective. Earth-Science Reviews, 2016, 161, 130-139.	9.1	63
35	Burn severity alters peatland moss water availability: implications for post-fire recovery. Ecohydrology, 2016, 9, 341-353.	2.4	29
36	Influence of glacial landform hydrology on phosphorus budgets of shallow lakes on the Boreal Plain, Canada. Journal of Hydrology, 2016, 535, 191-203.	5.4	11

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37	Hydrological controls on deep burning in a northern forested peatland. <i>Hydrological Processes</i> , 2015, 29, 4114-4124.	2.6	67
38	Climatic controls on groundwater-surface water interactions within the Boreal Plains of Alberta: Field observations and numerical simulations. <i>Journal of Hydrology</i> , 2015, 527, 734-746.	5.4	39
39	Atmospheric and soil moisture controls on evapotranspiration from above and within a Western Boreal Plain aspen forest. <i>Hydrological Processes</i> , 2014, 28, 4449-4462.	2.6	59
40	Sources and fate of terrestrial dissolved organic carbon in lakes of a Boreal Plains region recently affected by wildfire. <i>Biogeosciences</i> , 2013, 10, 6247-6265.	3.3	41
41	Reclamation for aspen revegetation in the Athabasca oil sands: Understanding soil water dynamics through unsaturated flow modelling. <i>Canadian Journal of Soil Science</i> , 2012, 92, 103-116.	1.2	20
42	The impact of gravel extraction on groundwater dependent wetlands and lakes in the Boreal Plains, Canada. <i>Environmental Earth Sciences</i> , 2012, 67, 1249-1259.	2.7	15
43	Regionalization of Runoff Variability of Alberta, Canada, by Wavelet, Independent Component, Empirical Orthogonal Function, and Geographical Information System Analyses. <i>Journal of Hydrologic Engineering - ASCE</i> , 2011, 16, 93-107.	1.9	12
44	Effects of aspen harvesting on groundwater recharge and water table dynamics in a subhumid climate. <i>Water Resources Research</i> , 2011, 47, .	4.2	31
45	Aspect and soil textural controls on snowmelt runoff on forested Boreal Plain hillslopes. <i>Hydrology Research</i> , 2011, 42, 250-267.	2.7	32
46	Surface vegetation controls on evapotranspiration from a sub-humid Western Boreal Plain wetland. <i>Hydrological Processes</i> , 2010, 24, 1072-1085.	2.6	80
47	Mechanisms and pathways of lateral flow on aspen-forested, Luvisolic soils, Western Boreal Plains, Alberta, Canada. <i>Hydrological Processes</i> , 2010, 24, 2995-3010.	2.6	27
48	Precipitation variability and its relationship to hydrologic variability in Alberta. <i>Hydrological Processes</i> , 2009, 23, 3040-3056.	2.6	50
49	Lateral flow thresholds for aspen forested hillslopes on the Western Boreal Plain, Alberta, Canada. <i>Hydrological Processes</i> , 2008, 22, 4287-4300.	2.6	58
50	Influence of subhumid climate and water table depth on groundwater recharge in shallow outwash aquifers. <i>Water Resources Research</i> , 2008, 44, .	4.2	53
51	Simulations of fully coupled lake-groundwater exchange in a subhumid climate with an integrated hydrologic model. <i>Water Resources Research</i> , 2007, 43, .	4.2	68
52	Dynamics of evapotranspiration from a riparian pond complex in the Western Boreal Forest, Alberta, Canada. <i>Hydrological Processes</i> , 2007, 21, 1391-1401.	2.6	79
53	Particle densities of wetland soils in northern Alberta, Canada. <i>Canadian Journal of Soil Science</i> , 2006, 86, 57-60.	1.2	49
54	Relation of soil-, surface-, and ground-water distributions of inorganic nitrogen with topographic position in harvested and unharvested portions of an aspen-dominated catchment in the Boreal Plain. <i>Canadian Journal of Forest Research</i> , 2006, 36, 2090-2103.	1.7	19

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55	Advances in Canadian wetland hydrology, 1999-2003. Hydrological Processes, 2005, 19, 201-214.	2.6	73
56	Controls on runoff from a partially harvested aspen-forested headwater catchment, Boreal Plain, Canada. Hydrological Processes, 2005, 19, 3-25.	2.6	112
57	A framework for broad-scale classification of hydrologic response units on the Boreal Plain: is topography the last thing to consider?. Hydrological Processes, 2005, 19, 1705-1714.	2.6	270
58	Hydrogeology of brook trout ( <i>Salvelinus fontinalis</i> ) spawning and incubation habitats: implications for forestry and land use development. Canadian Journal of Forest Research, 1996, 26, 767-772.	1.7	23