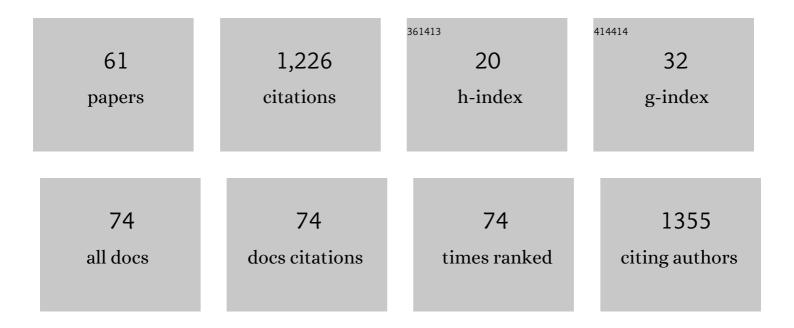
James Craig

List of Publications by Year in descending order

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IAMES CRAIC

#	Article	IF	CITATIONS
1	Changing hydrologic connectivity due to permafrost thaw in the lower Liard River valley, NWT, Canada. Hydrological Processes, 2014, 28, 4163-4178.	2.6	157
2	Pump-and-treat optimization using analytic element method flow models. Advances in Water Resources, 2006, 29, 760-775.	3.8	100
3	The effects of dual porosity on transport and retardation in peat: A laboratory experiment. Canadian Journal of Soil Science, 2012, 92, 723-732.	1.2	65
4	Flexible watershed simulation with the Raven hydrological modelling framework. Environmental Modelling and Software, 2020, 129, 104728.	4.5	62
5	Taliks: A Tipping Point in Discontinuous Permafrost Degradation in Peatlands. Water Resources Research, 2019, 55, 9838-9857.	4.2	54
6	The hydrology of interconnected bog complexes in discontinuous permafrost terrains. Hydrological Processes, 2015, 29, 3831-3847.	2.6	45
7	Are all runoff processes the same? Numerical experiments comparing a <scp>D</scp> arcyâ€ <scp>R</scp> ichards solver to an overland flowâ€based approach for subsurface storm runoff simulation. Water Resources Research, 2015, 51, 10008-10028.	4.2	38
8	Assessing the performance of a semiâ€distributed hydrological model under various watershed discretization schemes. Hydrological Processes, 2015, 29, 4018-4031.	2.6	34
9	Applicability of the Green-Ampt Infiltration Model with Shallow Boundary Conditions. Journal of Hydrologic Engineering - ASCE, 2011, 16, 266-273.	1.9	33
10	Runoff–infiltration partitioning using an upscaled Green–Ampt solution. Hydrological Processes, 2010, 24, 2328-2334.	2.6	32
11	A synthesis of three decades of hydrological research at Scotty Creek, NWT, Canada. Hydrology and Earth System Sciences, 2019, 23, 2015-2039.	4.9	30
12	Finite difference modeling of contaminant transport using analytic element flow solutions. Advances in Water Resources, 2006, 29, 1075-1087.	3.8	29
13	The Great Lakes Runoff Intercomparison Project Phase 4: the Great Lakes (GRIP-GL). Hydrology and Earth System Sciences, 2022, 26, 3537-3572.	4.9	27
14	Impact of soil heterogeneity on the functioning of horizontal ground heat exchangers. Geothermics, 2014, 50, 35-43.	3.4	26
15	A theoretical extension of the soil freezing curve paradigm. Advances in Water Resources, 2018, 111, 319-328.	3.8	26
16	Simultaneously determining global sensitivities of model parameters and model structure. Hydrology and Earth System Sciences, 2020, 24, 5835-5858.	4.9	26
17	Analytical expressions for the hydraulic design of continuous permeable reactive barriers. Advances in Water Resources, 2006, 29, 99-111.	3.8	25
18	Automatic Model Structure Identification for Conceptual Hydrologic Models. Water Resources Research, 2020, 56, e2019WR027009.	4.2	25

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19	Series solutions for saturated–unsaturated flow in multi-layer unconfined aquifers. Advances in Water Resources, 2013, 60, 24-33.	3.8	23
20	A diagnostic approach to constraining flow partitioning in hydrologic models using a multiobjective optimization framework. Water Resources Research, 2017, 53, 3279-3301.	4.2	22
21	Semianalytical series solutions for three-dimensional groundwater-surface water interaction. Water Resources Research, 2014, 50, 3893-3906.	4.2	20
22	Analytical Models for the Design of Iron-Based Permeable Reactive Barriers. Journal of Environmental Engineering, ASCE, 2005, 131, 1589-1597.	1.4	19
23	Analytical solutions for 2D topography-driven flow in stratified and syncline aquifers. Advances in Water Resources, 2008, 31, 1066-1073.	3.8	19
24	A simple expression for the bulk field capacity of a sloping soil horizon. Hydrological Processes, 2011, 25, 112-116.	2.6	15
25	Long-term climate-influenced land cover change in discontinuous permafrost peatland complexes. Hydrology and Earth System Sciences, 2021, 25, 3301-3317.	4.9	15
26	The sensitivity of simulated streamflow to individual hydrologic processes across North America. Nature Communications, 2022, 13, 455.	12.8	15
27	Current and future projections of glacier contribution to streamflow in the upper Athabasca River Basin. Canadian Water Resources Journal, 2020, 45, 324-344.	1.2	14
28	Simultaneous Calibration of Hydrologic Model Structure and Parameters Using a Blended Model. Water Resources Research, 2021, 57, e2020WR029229.	4.2	14
29	Semi-analytical 3D solution for assessing radial collector well pumping impacts on groundwater–surface water interaction. Hydrology Research, 2018, 49, 17-26.	2.7	13
30	Finite element transport modeling using analytic element flow solutions. Water Resources Research, 2006, 42, .	4.2	12
31	Can Improved Flow Partitioning in Hydrologic Models Increase Biogeochemical Predictability?. Water Resources Research, 2019, 55, 2939-2960.	4.2	12
32	Great Lakes Runoff Intercomparison Project Phase 3: Lake Erie (GRIP-E). Journal of Hydrologic Engineering - ASCE, 2021, 26, .	1.9	12
33	Modelling well leakage in multilayer aquifer systems using the extended finite element method. Finite Elements in Analysis and Design, 2010, 46, 504-513.	3.2	11
34	Coordinate mapping of analytical contaminant transport solutions to non-uniform flow fields. Advances in Water Resources, 2009, 32, 353-360.	3.8	9
35	Analytic elements for flow in harmonically heterogeneous aquifers. Water Resources Research, 2009, 45, .	4.2	9
36	Series solutions for flow in stratified aquifers with natural geometry. Advances in Water Resources, 2010, 33, 48-54.	3.8	9

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37	Conceptual and numerical models for sustainable groundwater management in the Thaphra area, Chi River Basin, Thailand. Hydrogeology Journal, 2012, 20, 1355-1374.	2.1	9
38	A Particle Tracking Algorithm for Arbitrary Unstructured Grids. Ground Water, 2020, 58, 19-26.	1.3	9
39	Mechanisms of Discontinuous Permafrost Thaw in Peatlands. Journal of Geophysical Research F: Earth Surface, 2021, 126, e2021JF006204.	2.8	9
40	The Nested Superblock Approach for Regional-Scale Analytic Element Models. Ground Water, 2006, 44, 76-80.	1.3	8
41	Analytic-Element Modeling of Supraregional Groundwater Flow: Concepts and Tools for Automated Model Configuration. Journal of Hydrologic Engineering - ASCE, 2007, 12, 83-96.	1.9	8
42	Using the extended finite element method for simulation of transient well leakage in multilayer aquifers. Advances in Water Resources, 2011, 34, 1207-1214.	3.8	7
43	A general analytical solution for steady flow in heterogeneous porous media. Water Resources Research, 2015, 51, 4184-4197.	4.2	7
44	An extended finite element method model for carbon sequestration. International Journal for Numerical Methods in Engineering, 2015, 102, 316-331.	2.8	7
45	Structural calibration of an semi-distributed hydrological model of the Liard River basin. Canadian Water Resources Journal, 2020, 45, 287-303.	1.2	7
46	Mimicry of a Conceptual Hydrological Model (HBV): What's in a Name?. Water Resources Research, 2021, 57, e2020WR029143.	4.2	7
47	A priori discretization error metrics for distributed hydrologic modeling applications. Journal of Hydrology, 2016, 543, 873-891.	5.4	6
48	A Semianalytical Interface Model of Soil Freeze/Thaw and Permafrost Evolution. Water Resources Research, 2020, 56, e2020WR027638.	4.2	6
49	Subwatershed-based lake and river routing products for hydrologic and land surface models applied over Canada. Canadian Water Resources Journal, 2020, 45, 237-251.	1.2	6
50	Influence of numerical precision on the calibration of AEM-based groundwater flow models. Environmental Geology, 2005, 48, 57-67.	1.2	5
51	Simulating the cumulative effects of potential open-pit mining and climate change on streamflow and water quality in a mountainous watershed. Science of the Total Environment, 2022, 806, 150394.	8.0	5
52	Design, Construction, and Destruction in the Classroom: Experiential Learning with Earthen Dams. Journal of Hydraulic Engineering, 2020, 146, .	1.5	4
53	Use of an Efficient Proxy Solution for the Hillslopeâ€Storage Boussinesq Problem in Upscaling of Subsurface Stormflow. Water Resources Research, 2021, 57, e2020WR029105.	4.2	4
54	A trust region approach for numerical modeling of non-isothermal phase change. Computational Geosciences, 2019, 23, 911-923.	2.4	3

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55	Effective groundwater-surface water exchange at watershed scales. Hydrological Processes, 2016, 30, 1849-1861.	2.6	2
56	Closed Analytic Elements with Flexible Geometry. Ground Water, 2018, 56, 816-822.	1.3	1
57	Reply to Comment on "A Particle Tracking Algorithm for Arbitrary Unstructured Grids― Ground Water, 2020, 58, 6-7.	1.3	1
58	Subsurface flow measurements using passive flux meters in variablyâ€saturated coldâ€regions landscapes. Hydrological Processes, 2020, 34, 4541-4546.	2.6	1
59	The pie sharing problem: Unbiased sampling of N+1 summative weights. Environmental Modelling and Software, 2022, 148, 105282.	4.5	1
60	FREE CONVECTIVE DRAFT INDUCED BY THERMAL AND CONCENTRATION GRADIENTS INSIDE AN ISOTHERMAL, VERTICAL CYLINDERâ€. Chemical Engineering Communications, 1984, 27, 129-156.	2.6	0
61	Discretization of analytic element flow solutions for transport modeling. Developments in Water Science, 2004, 55, 381-391.	0.1	0