

Paul H Whitfield

List of Publications by Year in descending order

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110
papers

3,133
citations

147566

31
h-index

182168

51
g-index

127
all docs

127
docs citations

127
times ranked

2826
citing authors

#	ARTICLE	IF	CITATIONS
1	Groundwater-surface water interaction under scenarios of climate change using a high-resolution transient groundwater model. <i>Journal of Hydrology</i> , 2007, 333, 165-181.	2.3	207
2	Downscaling recent streamflow conditions in British Columbia, Canada using ensemble neural network models. <i>Journal of Hydrology</i> , 2002, 259, 136-151.	2.3	171
3	Recent Variations in Climate and Hydrology in Canada. <i>Canadian Water Resources Journal</i> , 2000, 25, 19-65.	0.5	135
4	Climate-driven variability in the occurrence of major floods across North America and Europe. <i>Journal of Hydrology</i> , 2017, 552, 704-717.	2.3	122
5	Detection of runoff timing changes in pluvial, nival, and glacial rivers of western Canada. <i>Water Resources Research</i> , 2009, 45, .	1.7	117
6	Flood processes in Canada: Regional and special aspects. <i>Canadian Water Resources Journal</i> , 2016, 41, 7-30.	0.5	97
7	The 2013 flood event in the South Saskatchewan and Elk River basins: Causes, assessment and damages. <i>Canadian Water Resources Journal</i> , 2016, 41, 105-117.	0.5	97
8	Pacific Decadal Oscillation and the Hydroclimatology of Western Canada—Review and Prospects. <i>Canadian Water Resources Journal</i> , 2010, 35, 1-28.	0.5	96
9	Changes in floods and flood regimes in Canada. <i>Canadian Water Resources Journal</i> , 2016, 41, 139-150.	0.5	85
10	EVIDENCE OF CLIMATE CHANGE EFFECTS ON THE HYDROLOGY OF STREAMS IN SOUTH-CENTRAL BC. <i>Canadian Water Resources Journal</i> , 1998, 23, 219-230.	0.5	80
11	The Abuse of Popular Performance Metrics in Hydrologic Modeling. <i>Water Resources Research</i> , 2021, 57, e2020WR029001.	1.7	76
12	Regime-dependent streamflow sensitivities to Pacific climate modes cross the Georgia-Puget transboundary ecoregion. <i>Hydrological Processes</i> , 2007, 21, 3264-3287.	1.1	75
13	Identification and characterization of water quality transients using wavelet analysis. I. Wavelet analysis methodology. <i>Water Science and Technology</i> , 1997, 36, 325-335.	1.2	69
14	Reference hydrologic networks I. The status and potential future directions of national reference hydrologic networks for detecting trends. <i>Hydrological Sciences Journal</i> , 2012, 57, 1562-1579.	1.2	67
15	Spatiotemporal mapping of ENSO and PDO surface meteorological signals in British Columbia, Yukon, and southeast Alaska. <i>Atmosphere - Ocean</i> , 2010, 48, 122-131.	0.6	65
16	Some particulate and soluble agents affecting the relationship between metal toxicity and organism survival in the calanoid copepod <i>Euchaeta japonica</i> . <i>Marine Biology</i> , 1972, 17, 215-221.	0.7	50
17	Climate Controls on Runoff and Low Flows in Mountain Catchments of Western North America. <i>Water Resources Research</i> , 2018, 54, 7495-7510.	1.7	49
18	Linked hydrologic and climate variations in British Columbia and Yukon. , 2001, 67, 217-238.		47

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19	Synoptic Map-Pattern Classification Using Recursive Partitioning and Principal Component Analysis. <i>Monthly Weather Review</i> , 2002, 130, 1187-1206.	0.5	47
20	Modelling Streamflow in Present and Future Climates: Examples from the Georgia Basin, British Columbia. <i>Canadian Water Resources Journal</i> , 2002, 27, 427-456.	0.5	44
21	Identification of changes in floods and flood regimes in Canada using a peaks over threshold approach. <i>Hydrological Processes</i> , 2016, 30, 3303-3314.	1.1	44
22	Reference hydrologic networks II. Using reference hydrologic networks to assess climate-driven changes in streamflow. <i>Hydrological Sciences Journal</i> , 2012, 57, 1580-1593.	1.2	43
23	Hysteresis in relationships between discharge and water chemistry in the Fraser River basin, British Columbia. <i>Limnology and Oceanography</i> , 1981, 26, 1179-1182.	1.6	41
24	Snow Drought Risk and Susceptibility in the Western United States and Southwestern Canada. <i>Water Resources Research</i> , 2019, 55, 3076-3091.	1.7	41
25	GOALS AND DATA COLLECTION DESIGNS FOR WATER QUALITY MONITORING. <i>Journal of the American Water Resources Association</i> , 1988, 24, 775-780.	1.0	40
26	Seasonal and long-term variations in water quality of the Skeena River at Usk, British Columbia. <i>Water Research</i> , 1997, 31, 2187-2194.	5.3	40
27	Trends and Variability in Extreme Rainfall Events in British Columbia. <i>Canadian Water Resources Journal</i> , 2011, 36, 67-82.	0.5	39
28	Recent variations in seasonality of temperature and precipitation in Canada, 1976-95. <i>International Journal of Climatology</i> , 2002, 22, 1617-1644.	1.5	38
29	Anomalous Ocean Conditions May Explain the Recent Extreme Variability in Fraser River Sockeye Salmon Production. <i>Marine and Coastal Fisheries</i> , 2012, 4, 415-437.	0.6	36
30	SCDNA: a serially complete precipitation and temperature dataset for North America from 1979 to 2018. <i>Earth System Science Data</i> , 2020, 12, 2381-2409.	3.7	35
31	Groundwater level responses in temperate mountainous terrain: regime classification, and linkages to climate and streamflow. <i>Hydrological Processes</i> , 2010, 24, 3392-3412.	1.1	34
32	Changes in cold region flood regimes inferred from long-term record reference gauging stations. <i>Water Resources Research</i> , 2017, 53, 2643-2658.	1.7	34
33	Are the effects of vegetation and soil changes as important as climate change impacts on hydrological processes?. <i>Hydrology and Earth System Sciences</i> , 2019, 23, 4933-4954.	1.9	33
34	Changes in flood events inferred from centennial length streamflow data records. <i>Advances in Water Resources</i> , 2018, 121, 333-349.	1.7	31
35	Water Table and Vegetation Response to Ditch Blocking: Restoration of a Raised Bog in Southwestern British Columbia. <i>Canadian Water Resources Journal</i> , 2009, 34, 381-392.	0.5	27
36	Influence of Pacific Climate Patterns on Low-Flows in British Columbia and Yukon, Canada. <i>Canadian Water Resources Journal</i> , 2006, 31, 25-40.	0.5	26

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37	Changes to flood peaks of a mountain river: implications for analysis of the 2013 flood in the Upper Bow River, Canada. <i>Hydrological Processes</i> , 2016, 30, 4657-4673.	1.1	26
38	Control of the biological availability of trace metals to a calanoid copepod in a coastal fjord. <i>Estuarine and Coastal Marine Science</i> , 1976, 4, 255-266.	0.9	25
39	The reduction of copper toxicity in a marine copepod by sediment extract1. <i>Limnology and Oceanography</i> , 1973, 18, 324-326.	1.6	23
40	Is "Centre of Volume" a robust indicator of changes in snowmelt timing?. <i>Hydrological Processes</i> , 2013, 27, 2691-2698.	1.1	23
41	Hydrologic and Climatic Zonation of Georgia Basin, British Columbia. <i>Canadian Water Resources Journal</i> , 2001, 26, 43-70.	0.5	22
42	Effects of Temperature Forcing Provenance and Extrapolation on the Performance of an Empirical Glacier-Melt Model. <i>Arctic, Antarctic, and Alpine Research</i> , 2014, 46, 379-393.	0.4	22
43	EMDNA: an Ensemble Meteorological Dataset for North America. <i>Earth System Science Data</i> , 2021, 13, 3337-3362.	3.7	22
44	MONITORING TRANSIENT WATER QUALITY EVENTS ELECTRONICALLY. <i>Journal of the American Water Resources Association</i> , 1992, 28, 703-711.	1.0	21
45	Hydrological Responses of Headwater Basins to Monthly Perturbed Climate in the North American Cordillera. <i>Journal of Hydrometeorology</i> , 2019, 20, 863-882.	0.7	21
46	CARMA's MERRA-based caribou range climate database. <i>Rangifer</i> , 2013, 33, 145.	0.6	19
47	INTERVENTION ANALYSIS OF WATER QUALITY RECORDS. <i>Journal of the American Water Resources Association</i> , 1984, 20, 657-668.	1.0	18
48	Dissolved-oxygen depressions under ice cover in two Yukon rivers. <i>Water Resources Research</i> , 1986, 22, 1675-1679.	1.7	17
49	CONFLICTING PERSPECTIVES ABOUT DETECTION LIMITS AND ABOUT THE CENSORING OF ENVIRONMENTAL DATA. <i>Journal of the American Water Resources Association</i> , 1994, 30, 1063-1079.	1.0	17
50	MODELING TRANSIENT pH DEPRESSIONS IN COASTAL STREAMS OF BRITISH COLUMBIA USING NEURAL NETWORKS. <i>Journal of the American Water Resources Association</i> , 2001, 37, 73-89.	1.0	17
51	Improving Hydrological Predictions in Peatlands. <i>Canadian Water Resources Journal</i> , 2009, 34, 467-478.	0.5	17
52	Designing monitoring programs for water quality based on experience in Canada I. Theory and framework. <i>TrAC - Trends in Analytical Chemistry</i> , 2009, 28, 204-213.	5.8	17
53	The sensitivity of snow hydrology to changes in air temperature and precipitation in three North American headwater basins. <i>Journal of Hydrology</i> , 2022, 606, 127460.	2.3	16
54	Why the Provenance of Data Matters: Assessing Fitness for Purpose for Environmental Data. <i>Canadian Water Resources Journal</i> , 2012, 37, 23-36.	0.5	15

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55	MONITORING STRATEGIES TO DETERMINE COMPLIANCE WITH WATER QUALITY OBJECTIVES 1. Journal of the American Water Resources Association, 1989, 25, 63-69.	1.0	14
56	Application Potential of Four Nontraditional Similarity Metrics in Hydrometeorology. Journal of Hydrometeorology, 2014, 15, 1862-1880.	0.7	14
57	SELECTING A METHOD FOR ESTIMATING SUBSTANCE LOADINGS. Journal of the American Water Resources Association, 1982, 18, 203-210.	1.0	13
58	EVALUATION OF WATER QUALITY SAMPLING LOCATIONS ON THE YUKON RIVER. Journal of the American Water Resources Association, 1983, 19, 115-121.	1.0	13
59	Trends in pH, calcium, and sulfate of rivers in Atlantic Canada. Limnology and Oceanography, 1983, 28, 160-165.	1.6	13
60	A PRACTICAL MODEL INTEGRATING QUALITY ASSURANCE INTO ENVIRONMENTAL MONITORING. Journal of the American Water Resources Association, 1993, 29, 119-130.	1.0	13
61	Assessing Detectability of Change in Low Flows in Future Climates from Stage Discharge Measurements. Canadian Water Resources Journal, 2006, 31, 1-12.	0.5	13
62	Changes in seasonal patterns of temperature and precipitation in China during 1971â€“2000. Advances in Atmospheric Sciences, 2007, 24, 459-473.	1.9	13
63	Can Analysis of Historic Lagg Forms Be of Use in the Restoration of Highly Altered Raised Bogs? Examples from Burns Bog, British Columbia. Canadian Water Resources Journal, 2009, 34, 427-440.	0.5	13
64	Assessing the suitability of hydrometric data for trend analysis: The â€“FlowScreenâ€™ package for R. Canadian Water Resources Journal, 2017, 42, 269-275.	0.5	13
65	Changes in the Seasonal Cycle in the Circumpolar Arctic, 1976-95: Temperature and Precipitation. Arctic, 2004, 57, .	0.2	13
66	Recharge sensitivity to local and regional precipitation in semiarid midlatitude regions. Water Resources Research, 2009, 45, .	1.7	11
67	Estimates of Canadian Pacific Coast runoff from observed streamflow data. Journal of Hydrology, 2011, 410, 141-149.	2.3	11
68	Climate Station Analysis and Fitness for Purpose Assessment of 3053600 Kananaskis, Alberta. Atmosphere - Ocean, 2014, 52, 363-383.	0.6	11
69	Identification and characterization of transient water quality events by Fourier analysis. Environment International, 1995, 21, 571-575.	4.8	10
70	Spatial patterns of temporal changes in Canadian Prairie streamflow using an alternative trend assessment approach. Journal of Hydrology, 2020, 582, 124541.	2.3	10
71	ZeroFlow: A PUB (Prediction in Ungauged Basins) Workshop on Temporary Streams Summary of Workshop Discussions and Future Directions. Canadian Water Resources Journal, 2012, 37, 425-431.	0.5	9
72	Regionalization of water quality in the upper fraser river basin, British Columbia. Water Research, 1983, 17, 1053-1066.	5.3	8

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73	QUALITY ASSURANCE TECHNIQUES FOR ELECTRONIC DATA ACQUISITION. Journal of the American Water Resources Association, 1993, 29, 301-308.	1.0	8
74	Climate Change Impacts on Water in Georgia Basin/Puget Sound " Special Issue. Canadian Water Resources Journal, 2003, 28, 523-529.	0.5	8
75	Seasonal statistics: The "seas"™ package for R. Computers and Geosciences, 2007, 33, 944-951.	2.0	8
76	Invited Commentary: Coupling Science and Monitoring to Meet Future Information Needs. Canadian Water Resources Journal, 2008, 33, 1-3.	0.5	8
77	A multi-perspective examination of heat waves affecting Metro Vancouver: now into the future. Natural Hazards, 2017, 87, 791-815.	1.6	8
78	Evaluating the suitability of three gridded datasets and their impacts on hydrological simulation at Scotty Creek in the southern Northwest Territories, Canada. Hydrological Processes, 2020, 34, 898-913.	1.1	8
79	Improving the Prediction of Low Flows in Ungauged Basins in Canada in the Future. Canadian Water Resources Journal, 2008, 33, 207-214.	0.5	7
80	Designing monitoring programs for water quality based on experience in Canada II. Characterization of problems and data-quality objectives. TrAC - Trends in Analytical Chemistry, 2010, 29, 385-398.	5.8	7
81	Independent component analysis of local-scale temporal variability in sediment-water interface temperature. Water Resources Research, 2015, 51, 9679-9695.	1.7	7
82	Assessing the quality of the streamflow record for a long-term reference hydrometric station: Bow River at Banff. Canadian Water Resources Journal, 2017, 42, 391-415.	0.5	7
83	Climate change impacts on snow and streamflow drought regimes in four ecoregions of British Columbia. Canadian Water Resources Journal, 2021, 46, 168-193.	0.5	7
84	Transient water quality events in british Columbia coastal streams. Water Science and Technology, 1996, 33, 151-161.	1.2	7
85	Introduction to the Special Issue on Low-Flow Prediction in Ungauged Basins (PUB) in Canada. Canadian Water Resources Journal, 2008, 33, 103-106.	0.5	6
86	Introduction to Peatlands Special Issue: Improving Hydrological Prediction in Canadian Peatlands. Canadian Water Resources Journal, 2009, 34, 303-310.	0.5	6
87	Invited Commentary: A Framework for Integrated Research and Monitoring (FIRM). Canadian Water Resources Journal, 2009, 34, 1-6.	0.5	6
88	Changes to rainfall, snowfall, and runoff events during the autumn-winter transition in the Rocky Mountains of North America. Canadian Water Resources Journal, 2020, 45, 28-42.	0.5	6
89	Plant community type is an indicator of the seasonal moisture deficit in a disturbed raised bog. Ecohydrology, 2020, 13, e2209.	1.1	6
90	MEMORY AND THE STATISTICAL INDEPENDENCE OF RAINFALL AND RUNOFF EVENTS. Canadian Water Resources Journal, 1998, 23, 21-29.	0.5	5

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91	Designing and Redesigning Environmental Monitoring Programs from an Ecosystem Perspective. , 1997, , 107-116.		5
92	Changes in Extractable Metal Concentrations During Storage of Surface Water Samples Containing Sediments. Journal of the American Water Resources Association, 1982, 18, 129-132.	1.0	4
93	Using Force Analysis to Target Collection and Analysis of Environmental Information. Environmental Management, 2001, 28, 75-85.	1.2	4
94	Recent Variations in Temperature, Precipitation, and Streamflow in the Rio Grande and Pecos River Basins of New Mexico and Colorado. Reviews in Fisheries Science, 2006, 14, 51-78.	2.1	4
95	Verification of an ENSO-Based Long-Range Prediction of Anomalous Weather Conditions During the Vancouver 2010 Olympics and Paralympics. Pure and Applied Geophysics, 2014, 171, 323-336.	0.8	4
96	R-functions for Canadian hydrologists: a Canada-wide collaboration. Canadian Water Resources Journal, 2019, 44, 108-112.	0.5	4
97	The Role of Basin Geometry in Mountain Snowpack Responses to Climate Change. Frontiers in Water, 2021, 3, .	1.0	4
98	SOME FACTORS AFFECTING THE DETERMINATION OF PARTICULATE CARBON AND NITROGEN IN RIVER WATER. Journal of the American Water Resources Association, 1981, 17, 381-386.	1.0	3
99	INDICATIONS OF GROUND WATER INFLUENCES ON NUTRIENT TRANSPORT THROUGH SCHWATKA LAKE, YUKON TERRITORY. Journal of the American Water Resources Association, 1982, 18, 197-202.	1.0	3
100	The spatial extent of hydrological and landscape changes across the mountains and prairies of Canada in the Mackenzie and Nelson River basins based on data from a warm-season time window. Hydrology and Earth System Sciences, 2021, 25, 2513-2541.	1.9	3
101	INTERVENTION MODELLING OF EFFECTS OF URBANIZATION ON A SMALL WATERSHED. Canadian Water Resources Journal, 1996, 21, 387-392.	0.5	2
102	Quantifying the impacts of climate change on groundwater in an unconfined aquifer that is strongly influenced by surface water. Geological Society Special Publication, 2008, 288, 79-98.	0.8	2
103	Preface to the Special Issue on Floods in Canada. Canadian Water Resources Journal, 2016, 41, 2-6.	0.5	2
104	Recent changes in seasonal variations of climate within the range of northern caribou populations. Rangifer, 2005, 25, 11.	0.6	2
105	Spectral Analysis of Long-Term Water Quality Records. Developments in Water Science, 1986, 27, 388-403.	0.1	1
106	Clustering of seasonal events: A simulation study using circular methods. Communications in Statistics Part B: Simulation and Computation, 2018, 47, 3008-3030.	0.6	1
107	Comment on: Escalante-Sandoval, C. and L. Amores-Rovelo. 2017. Regional monthly runoff forecast in Southern Canada using ANN, K-means, and L-moments techniques. Canadian water resources journal 42(3): 205-222. Canadian Water Resources Journal, 2020, 45, 3-10.	0.5	1
108	Quantifying the impacts of climate change on groundwater in an unconfined aquifer that is strongly influenced by surface water. Geological Society Special Publication, 2008, 288, 79-98.	0.8	0

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109	Monitoring water quality through data collection and analysis. , 2011, , .		0
110	Environmental Monitoring Time Scales: From Transient Events To Long-Term Trends. , 2003, , 75-90.		0