

# Diana M Allen

## List of Publications by Year in descending order

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109  
papers

6,019  
citations

126907

33  
h-index

74163

75  
g-index

116  
all docs

116  
docs citations

116  
times ranked

6484  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterizing Recharge in Southern Mali Using a Combination of Modeling and Stable Isotopes. <i>Frontiers in Water</i> , 2022, 4, .	2.3	0
2	Mapping the Vulnerability of Groundwater to Wastewater Spills for Source Water Protection in a Shale Gas Region. <i>Sustainability</i> , 2021, 13, 3987.	3.2	4
3	Approaching four decades of forest watershed research at Upper Penticton Creek, British Columbia: A synthesis. <i>Hydrological Processes</i> , 2021, 35, e14123.	2.6	6
4	Climate change impacts on snow and streamflow drought regimes in four ecoregions of British Columbia. <i>Canadian Water Resources Journal</i> , 2021, 46, 168-193.	1.2	7
5	Data sets for the Upper Penticton Creek Watershed Experiment: a paired catchment study to support investigations of watershed response to forest dynamics and climatic variability in an inland snow-dominated region. <i>Hydrological Processes</i> , 2021, 35, e14391.	2.6	2
6	Geostatistical characterization of aquifer heterogeneity in large coastal deltas: Implications for geophysical data collection. , 2021, , .		0
7	Changing Water Resources Under El Niño, Climate Change, and Growing Water Demands in Seasonally Dry Tropical Watersheds. <i>Water Resources Research</i> , 2021, 57, e2020WR028535.	4.2	11
8	How Important Are Those Fracture Zones? Scale Dependent Characteristics Revealed Through Field Studies and an Integrated Hydrological Model of a Mountain Headwater Catchment. <i>Frontiers in Water</i> , 2021, 3, .	2.3	1
9	Comparing Approaches for Reconstructing Groundwater Levels in the Mountainous Regions of Interior British Columbia, Canada, Using Tree Ring Widths. <i>Atmosphere</i> , 2020, 11, 1374.	2.3	4
10	Associations of five food- and water-borne diseases with ecological zone, land use and aquifer type in a changing climate. <i>Science of the Total Environment</i> , 2020, 728, 138808.	8.0	14
11	Investigating the hydraulic role of a large buried valley network on regional groundwater flow. <i>Hydrogeology Journal</i> , 2019, 27, 2377-2397.	2.1	8
12	Snow Drought Risk and Susceptibility in the Western United States and Southwestern Canada. <i>Water Resources Research</i> , 2019, 55, 3076-3091.	4.2	41
13	Response of a fractured bedrock aquifer to recharge from heavy rainfall events. <i>Journal of Hydrology</i> , 2018, 561, 1048-1062.	5.4	25
14	Climate Controls on Runoff and Low Flows in Mountain Catchments of Western North America. <i>Water Resources Research</i> , 2018, 54, 7495-7510.	4.2	49
15	Groundwater recharge indicator as tool for decision makers to increase socio-hydrological resilience to seasonal drought. <i>Journal of Hydrology</i> , 2018, 563, 1119-1134.	5.4	40
16	Hazard-specific Vulnerability Mapping for Water Security in a Shale Gas Context. <i>Global Environmental Studies</i> , 2018, , 33-43.	0.2	0
17	Enhancing water security in a rapidly developing shale gas region. <i>Journal of Hydrology: Regional Studies</i> , 2017, 11, 266-277.	2.4	9
18	Assessing the risk of saltwater intrusion in coastal aquifers. <i>Journal of Hydrology</i> , 2017, 551, 730-745.	5.4	106

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19	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale development: Water sourcing, treatment and disposal practices. Canadian Water Resources Journal, 2017, 42, 105-121.	1.2	73
20	Upscaling permeability for reservoir-scale modeling in bioturbated, heterogeneous tight siliciclastic reservoirs: Lower Cretaceous Viking Formation, Provost Field, Alberta, Canada. Marine and Petroleum Geology, 2017, 88, 1032-1046.	3.3	5
21	Assessing the suitability of hydrometric data for trend analysis: The "FlowScreen"™ package for R. Canadian Water Resources Journal, 2017, 42, 269-275.	1.2	13
22	Comparative analysis of hydraulic fracturing wastewater practices in unconventional shale developments: Regulatory regimes. Canadian Water Resources Journal, 2017, 42, 122-137.	1.2	11
23	Comparative Analysis of Hydraulic Fracturing Wastewater Practices in Unconventional Shale Development: Newspaper Coverage of Stakeholder Concerns and Social License to Operate. Sustainability, 2016, 8, 912.	3.2	24
24	Risk to water security for small islands: an assessment framework and application. Regional Environmental Change, 2016, 16, 827-839.	2.9	17
25	Complexity of hydrogeologic regime around an ancient low-angle thrust fault revealed by multidisciplinary field study. Geofluids, 2016, 16, 673-687.	0.7	2
26	Groundwater vulnerability on small islands. Nature Climate Change, 2016, 6, 1100-1103.	18.8	51
27	Implications of projected climate change for groundwater recharge in the western United States. Journal of Hydrology, 2016, 534, 124-138.	5.4	299
28	Comparing the groundwater contribution in two groundwater-fed streams using a combination of methods. Canadian Water Resources Journal, 2016, 41, 554-571.	1.2	6
29	Flood processes in Canada: Regional and special aspects. Canadian Water Resources Journal, 2016, 41, 7-30.	1.2	97
30	Climate Change Frames in Public Health and Water Resource Management: Towards Intersectoral Climate Change Adaptation. Climate Change Management, 2016, , 35-48.	0.8	3
31	Building Interdisciplinary Research Capacity: a Key Challenge for Ecological Approaches in Public Health. AIMS Public Health, 2016, 3, 389-406.	2.6	15
32	Independent component analysis of local-scale temporal variability in sediment-water interface temperature. Water Resources Research, 2015, 51, 9679-9695.	4.2	7
33	From days to decades: numerical modelling of freshwater lens response to climate change stressors on small low-lying islands. Hydrology and Earth System Sciences, 2015, 19, 933-949.	4.9	57
34	Hydroclimatic variables and acute gastroenteric illness in British Columbia, Canada: A time series analysis. Water Resources Research, 2015, 51, 885-895.	4.2	13
35	Groundwater-Surface Water Interactions in a Mountain-to-Coast Watershed: Effects of Climate Change and Human Stressors. Advances in Meteorology, 2015, 2015, 1-22.	1.6	14
36	Groundwater freshening following coastal progradation and land reclamation of the Po Plain, Italy. Hydrogeology Journal, 2015, 23, 1009-1026.	2.1	27

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37	Wave overwash impact on small islands: Generalised observations of freshwater lens response and recovery for multiple hydrogeological settings. <i>Journal of Hydrology</i> , 2015, 529, 1324-1335.	5.4	32
38	Statistical modeling of biogenically enhanced permeability in tight reservoir rock. <i>Marine and Petroleum Geology</i> , 2015, 65, 114-125.	3.3	21
39	Climate controls on nitrate concentration variability in the Abbotsford-Sumas aquifer, British Columbia, Canada. <i>Environmental Earth Sciences</i> , 2015, 73, 2895-2907.	2.7	5
40	Seasonal variation of acute gastro-intestinal illness by hydroclimatic regime and drinking water source: a retrospective population-based study. <i>Journal of Water and Health</i> , 2014, 12, 122-135.	2.6	10
41	Trends in groundwater levels in British Columbia. <i>Canadian Water Resources Journal</i> , 2014, 39, 15-31.	1.2	13
42	Assessing risk to groundwater quality using an integrated risk framework. <i>Environmental Earth Sciences</i> , 2014, 71, 4939-4956.	2.7	21
43	Preface: Hydrogeology of shallow thermal systems. <i>Hydrogeology Journal</i> , 2014, 22, 1-6.	2.1	8
44	Mixing processes in hydrothermal spring systems and implications for interpreting geochemical data: a case study in the Cappadocia region of Turkey. <i>Hydrogeology Journal</i> , 2014, 22, 7-23.	2.1	34
45	Influence of geologic layering on heat transport and storage in an aquifer thermal energy storage system. <i>Hydrogeology Journal</i> , 2014, 22, 233-250.	2.1	35
46	Hydraulic conductivity characteristics in mountains and implications for conceptualizing bedrock groundwater flow. <i>Hydrogeology Journal</i> , 2014, 22, 1003-1026.	2.1	89
47	Characterizing Pineapple Express storms in the Lower Mainland of British Columbia, Canada. <i>Canadian Water Resources Journal</i> , 2014, 39, 302-323.	1.2	21
48	Modeling coupled surface water and groundwater processes in a small mountainous headwater catchment. <i>Journal of Hydrology</i> , 2014, 517, 1089-1106.	5.4	32
49	Application of statistical approaches to analyze geological, geotechnical and hydrogeological data at a fractured-rock mine site in Northern Canada. <i>Hydrogeology Journal</i> , 2014, 22, 1707-1723.	2.1	12
50	A methodology for spatially representing the likelihood of occurrence of natural contaminants in groundwater. <i>Environmental Earth Sciences</i> , 2013, 68, 1863-1875.	2.7	1
51	Water Security Assessment: Integrating Governance and Freshwater Indicators. <i>Water Resources Management</i> , 2013, 27, 535-551.	3.9	78
52	Ground water and climate change. <i>Nature Climate Change</i> , 2013, 3, 322-329.	18.8	1,513
53	Estimating regional-scale fractured bedrock hydraulic conductivity using discrete fracture network (DFN) modeling. <i>Hydrogeology Journal</i> , 2012, 20, 1081-1100.	2.1	31
54	Consistency of groundwater flow patterns in mountainous topography: Implications for valley bottom water replenishment and for defining groundwater flow boundaries. <i>Water Resources Research</i> , 2012, 48, .	4.2	57

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55	Teaching hydrogeology: a review of current practice. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2159-2168.	4.9	17
56	Comparing isotopic groundwater age measurements with simulated groundwater ages: example of the Abbotsford-Sumas Aquifer (USA and Canada) and application. <i>Water and Environment Journal</i> , 2012, 26, 30-37.	2.2	3
57	Towards Sustainable Groundwater Use: Setting Long-Term Goals, Backcasting, and Managing Adaptively. <i>Ground Water</i> , 2012, 50, 19-26.	1.3	208
58	Towards best practice for assessing the impacts of climate change on groundwater. <i>Hydrogeology Journal</i> , 2012, 20, 1-4.	2.1	99
59	Beneath the surface of global change: Impacts of climate change on groundwater. <i>Journal of Hydrology</i> , 2011, 405, 532-560.	5.4	796
60	Groundwater storage variability and annual recharge using well-hydrograph and GRACE satellite data. <i>Hydrogeology Journal</i> , 2011, 19, 741-755.	2.1	58
61	Evaluating the sensitivity of DRASTIC using different data sources, interpretations and mapping approaches. <i>Environmental Earth Sciences</i> , 2011, 62, 1577-1595.	2.7	9
62	Resolving scales of aquifer heterogeneity using ground penetrating radar and borehole geophysical logging. <i>Environmental Earth Sciences</i> , 2011, 63, 581-593.	2.7	8
63	Comparing approaches for modeling spatially distributed direct recharge in a semi-arid region (Okanagan Basin, Canada). <i>Hydrogeology Journal</i> , 2010, 18, 339-357.	2.1	16
64	Use of stream response functions to determine impacts of replacing surface-water use with groundwater withdrawals. <i>Hydrogeology Journal</i> , 2010, 18, 1077-1092.	2.1	6
65	Evaluating the use of a gridded climate surface for modelling groundwater recharge in a semi-arid region (Okanagan Basin, Canada). <i>Hydrological Processes</i> , 2010, 24, 3087-3100.	2.6	8
66	Groundwater level responses in temperate mountainous terrain: regime classification, and linkages to climate and streamflow. <i>Hydrological Processes</i> , 2010, 24, 3392-3412.	2.6	34
67	A novel approach to modelling water transport and drug diffusion through the stratum corneum. <i>Theoretical Biology and Medical Modelling</i> , 2010, 7, 33.	2.1	16
68	Groundwater sustainability strategies. <i>Nature Geoscience</i> , 2010, 3, 378-379.	12.9	213
69	Climate Change and Health in British Columbia: Projected Impacts and a Proposed Agenda for Adaptation Research and Policy. <i>International Journal of Environmental Research and Public Health</i> , 2010, 7, 1018-1035.	2.6	15
70	Heat transport simulations in a heterogeneous aquifer used for aquifer thermal energy storage (ATES). <i>Canadian Geotechnical Journal</i> , 2010, 47, 96-115.	2.8	38
71	Variability in simulated recharge using different GCMs. <i>Water Resources Research</i> , 2010, 46, .	4.2	70
72	Simulated response of groundwater to predicted recharge in a semi-arid region using a scenario of modelled climate change. <i>Environmental Research Letters</i> , 2009, 4, 035003.	5.2	38

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73	An approach for predicting groundwater recharge in mountainous watersheds. <i>Journal of Hydrology</i> , 2009, 365, 156-172.	5.4	45
74	Regional fracture network permeability using outcrop scale measurements. <i>Engineering Geology</i> , 2009, 108, 259-271.	6.3	40
75	Recharge sensitivity to local and regional precipitation in semiarid midlatitude regions. <i>Water Resources Research</i> , 2009, 45, .	4.2	11
76	Evaluating different GCMs for predicting spatial recharge in an irrigated arid region. <i>Journal of Hydrology</i> , 2009, 374, 265-281.	5.4	65
77	Estimating soil thaw energy in sub-Alpine tundra at the hillslope scale, Wolf Creek, Yukon Territory, Canada. <i>Hydrology Research</i> , 2009, 40, 1-18.	2.7	8
78	Simulating Nitrate Leaching Profiles in a Highly Permeable Vadose Zone. <i>Environmental Modeling and Assessment</i> , 2008, 13, 527-539.	2.2	21
79	Data integration and standardization in cross-border hydrogeological studies: a novel approach to hydrostratigraphic model development. <i>Environmental Geology</i> , 2008, 53, 1441-1453.	1.2	17
80	Regional evaluation of hydraulic properties in variably fractured rock using a hydrostructural domain approach. <i>Hydrogeology Journal</i> , 2008, 16, 11-30.	2.1	36
81	Groundwater travel times for unconfined island aquifers bounded by freshwater or seawater. <i>Hydrogeology Journal</i> , 2008, 16, 437-445.	2.1	27
82	Data integration across borders: a case study of the Abbotsford-Sumas aquifer (British Columbia). <i>Environmental Geology</i> , 2008, 44, 921-934.	2.4	13
83	Quantifying the impacts of climate change on groundwater in an unconfined aquifer that is strongly influenced by surface water. <i>Geological Society Special Publication</i> , 2008, 288, 79-98.	1.3	0
84	Quantifying heterogeneity in variably fractured sedimentary rock using a hydrostructural domain. <i>Bulletin of the Geological Society of America</i> , 2008, 120, 225-237.	3.3	18
85	Quantifying the impacts of climate change on groundwater in an unconfined aquifer that is strongly influenced by surface water. <i>Geological Society Special Publication</i> , 2008, 288, 79-98.	1.3	2
86	Low Flow Variability in Groundwater-Fed Streams. <i>Canadian Water Resources Journal</i> , 2007, 32, 227-246.	1.2	9
87	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.	5.4	207
88	Constraining Aquifer Architecture with Electrical Resistivity Imaging in a Fractured Hydrogeological Setting. <i>Journal of Environmental and Engineering Geophysics</i> , 2007, 12, 323-335.	0.5	12
89	Assessment of the Impact of Nutrient Management Practices on Nitrate Contamination in the Abbotsford-Sumas Aquifer. <i>Environmental Science &amp; Technology</i> , 2007, 41, 7229-7234.	10.0	12
90	Seasonal statistics: The "seas" package for R. <i>Computers and Geosciences</i> , 2007, 33, 944-951.	4.2	8

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91	Using fuzzy logic for modeling aquifer architecture. <i>Journal of Geographical Systems</i> , 2007, 9, 289-310.	3.1	7
92	DRASTIC-Fm: a modified vulnerability mapping method for structurally controlled aquifers in the southern Gulf Islands, British Columbia, Canada. <i>Hydrogeology Journal</i> , 2007, 15, 483-493.	2.1	110
93	Modeled impacts of predicted climate change on recharge and groundwater levels. <i>Water Resources Research</i> , 2006, 42, .	4.2	199
94	Comparing modelled responses of two high-permeability, unconfined aquifers to predicted climate change. <i>Global and Planetary Change</i> , 2006, 50, 50-62.	3.5	85
95	Determining the circulation depth of thermal springs in the southern Rocky Mountain Trench, south-eastern British Columbia, Canada using geothermometry and borehole temperature logs. <i>Hydrogeology Journal</i> , 2006, 14, 159-172.	2.1	33
96	An investigation into the effects of diffusion on salinity distribution beneath the Fraser River Delta, Canada. <i>Hydrogeology Journal</i> , 2006, 14, 1423-1442.	2.1	10
97	Sources of Ground Water Salinity on Islands Using $^{18}O$ , $^2H$ , and $^{34}S$ . <i>Ground Water</i> , 2004, 42, 17-31.	1.3	37
98	Groundwater and climate change: a sensitivity analysis for the Grand Forks aquifer, southern British Columbia, Canada. <i>Hydrogeology Journal</i> , 2004, 12, 270.	2.1	119
99	Use of Pb, $^{18}O$ , and $^2H$ Isotopes in Mining-related Environmental Studies. <i>Mine Water and the Environment</i> , 2004, 23, 119-132.	2.0	5
100	Differentiating sources of dissolved lead in mine waters using lead isotope techniques, Sullivan Mine, British Columbia. <i>Water Resources Research</i> , 2003, 39, HWC 1-1-HWC 1-13.	4.2	4
101	Investigation of Potential Saltwater Intrusion Pathways in a Fractured Aquifer using an Integrated Geophysical, Geological and Geochemical Approach. <i>Journal of Environmental and Engineering Geophysics</i> , 2002, 7, 19-36.	0.5	15
102	Hydrogeochemistry and geothermal characteristics of the White Lake basin, South-central British Columbia, Canada. <i>Geothermics</i> , 2002, 31, 169-194.	3.4	11
103	Geochemical evolution of groundwater on Saturna Island, British Columbia. <i>Canadian Journal of Earth Sciences</i> , 2001, 38, 1059-1080.	1.3	35
104	Potential application of oxygen-18 and deuterium in mining effluent and acid rock drainage studies. <i>Environmental Geology</i> , 2000, 39, 767-773.	1.2	16
105	Hydrochemical and stable isotope assessment of tailings pond leakage, Nickel Plate Mine, British Columbia. <i>Environmental Geology</i> , 2000, 39, 937-944.	1.2	13
106	Characterizing a Faulted Aquifer by Field Testing and Numerical Simulation. <i>Ground Water</i> , 1999, 37, 718-728.	1.3	13
107	"Detailed Pumping Test to Characterize a Fractured Bedrock Aquifer" by Jeffrey D. Gernand and Jeffrey P. Heidtman, July-August 1997 issue, v. 35, no. 4: 632-637.. <i>Ground Water</i> , 1998, 36, 197-197.	1.3	0
108	Evaluation of Multi-Well Test Data in a Faulted Aquifer Using Linear and Radial Flow Models. <i>Ground Water</i> , 1998, 36, 938-948.	1.3	19

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109	The Successful Use of Microgravity Profiling to Delineate Faults in Buried Bedrock Valleys. Ground Water, 1996, 34, 1132-1140.	1.3	5