

# Romain Chesnaux

## List of Publications by Year in descending order

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42  
papers

734  
citations

566801

15  
h-index

580395

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g-index

42  
all docs

42  
docs citations

42  
times ranked

626  
citing authors

#	ARTICLE	IF	CITATIONS
1	A cluster-based multiparametric similarity test for the compartmentalization of crystalline rocks into structural domains. Quarterly Journal of Engineering Geology and Hydrogeology, 2022, 55, .	0.8	2
2	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the Saguenay-Lac-Saint-Jean region, Canada. Hydrological Processes, 2022, 36, .	1.1	9
3	Chloride-salinity as indicator of the chemical composition of groundwater: empirical predictive model based on aquifers in Southern Quebec, Canada. Environmental Science and Pollution Research, 2022, 29, 59414-59432.	2.7	4
4	Review of Petroleum and Hydrogeology Equations for Characterizing the Pressure Front Diffusion during Pumping Tests. Geosciences (Switzerland), 2022, 12, 201.	1.0	2
5	Constraining a Flow Model with Field Measurements to Assess Water Transit Time Through a Vadose Zone. Ground Water, 2021, 59, 417-427.	0.7	15
6	An operational methodology for determining relevant DRASTIC factors and their relative weights in the assessment of aquifer vulnerability to contamination. Environmental Earth Sciences, 2021, 80, 1.	1.3	12
7	A new combined analytical-numerical method for evaluating the inflow rate into a tunnel excavated in a fractured rock mass. Engineering Geology, 2021, 283, 106003.	2.9	24
8	Using vadose-zone water stable isotope profiles for assessing groundwater recharge under different climatic conditions. Hydrological Sciences Journal, 2021, 66, 1597-1609.	1.2	10
9	Assessing response times of an alluvial aquifer experiencing seasonally variable meteorological inputs. Groundwater for Sustainable Development, 2021, 14, 100647.	2.3	11
10	A Regional Initiative for the Efficient Transfer of Groundwater Knowledge Between Experts and Stakeholders. Advances in Science, Technology and Innovation, 2021, , 327-330.	0.2	0
11	Transient Electromagnetic (TEM) Surveys as a First Approach for Characterizing a Regional Aquifer: The Case of the Saint-Narcisse Moraine, Quebec, Canada. Geosciences (Switzerland), 2021, 11, 415.	1.0	6
12	The Specific Length of an Underground Tunnel and the Effects of Rock Block Characteristics on the Inflow Rate. Geosciences (Switzerland), 2021, 11, 517.	1.0	3
13	Investigating the Potential Role of Geological Context on Groundwater Quality: A Case Study of the Grenville and St. Lawrence Platform Geological Provinces in Quebec, Canada. Geosciences (Switzerland), 2021, 11, 503.	1.0	3
14	A review of existing methods used to evaluate the hydraulic conductivity of a fractured rock mass. Engineering Geology, 2020, 265, 105438.	2.9	43
15	Water-table fluctuation method for assessing aquifer recharge: application to Canadian aquifers and comparison with other methods. Hydrogeology Journal, 2020, 28, 521-533.	0.9	32
16	Assessing groundwater recharge and transpiration in a humid northern region dominated by snowmelt using vadose-zone depth profiles. Hydrogeology Journal, 2020, 28, 2315-2329.	0.9	24
17	Identifying groundwater degradation sources in a Mediterranean coastal area experiencing significant multi-origin stresses. Science of the Total Environment, 2020, 746, 141203.	3.9	42
18	A portrait of wellbore leakage in northeastern British Columbia, Canada. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 913-922.	3.3	55

#	ARTICLE	IF	CITATIONS
19	Assessing the potential of cross-contamination from oil and gas hydraulic fracturing: A case study in northeastern British Columbia, Canada. <i>Journal of Environmental Management</i> , 2019, 246, 275-282.	3.8	18
20	Análise do rebaixamento da derivada logarítmica para interpretação de teste de bombeamento de taxa constante em aquíferos de substrato inclinado. <i>Hydrogeology Journal</i> , 2019, 27, 2279-2297.	0.9	7
21	Subsampling of Regional-Scale Database for improving Multivariate Analysis Interpretation of Groundwater Chemical Evolution and Ion Sources. <i>Geosciences (Switzerland)</i> , 2019, 9, 139.	1.0	8
22	Using flow dimension sequences to interpret non-uniform aquifers with constant-rate pumping-tests: A review. <i>Journal of Hydrology X</i> , 2019, 2, 100003.	0.8	12
23	Characterization of general and singular features of major aquifer systems in the Saguenay-Lac-Saint-Jean region. <i>Canadian Water Resources Journal</i> , 2018, 43, 75-91.	0.5	17
24	Advantages and challenges of using soil water isotopes to assess groundwater recharge dominated by snowmelt at a field study located in Canada. <i>Hydrological Sciences Journal</i> , 2018, 63, 679-695.	1.2	24
25	Insights on pumping well interpretation from flow dimension analysis: The learnings of a multi-context field database. <i>Journal of Hydrology</i> , 2018, 556, 449-474.	2.3	13
26	Spatial distribution of soil shear-wave velocity and the fundamental period of vibration “ a case study of the Saguenay region, Canada. <i>Georisk</i> , 2018, 12, 74-86.	2.6	4
27	Development of a hydrogeological conceptual wetland model in the data-scarce north-eastern region of Kilombero Valley, Tanzania. <i>Hydrogeology Journal</i> , 2018, 26, 267-284.	0.9	15
28	Avoiding confusion between pressure front pulse displacement and groundwater displacement: illustration with the pumping test in a confined aquifer. <i>Hydrological Processes</i> , 2018, 32, 3689-3694.	1.1	9
29	A numerical investigation of pumping-test responses from contiguous aquifers. <i>Hydrogeology Journal</i> , 2017, 25, 877-894.	0.9	8
30	A simplified geographical information systems (GIS)-based methodology for modeling the topography of bedrock: illustration using the Canadian Shield. <i>Applied Geomatics</i> , 2017, 9, 61-78.	1.2	7
31	The influence of water/rock and water/clay interactions and mixing in the salinization processes of groundwater. <i>Journal of Hydrology: Regional Studies</i> , 2017, 13, 168-188.	1.0	45
32	Detecting a Defective Casing Seal at the Top of a Bedrock Aquifer. <i>Ground Water</i> , 2016, 54, 296-303.	0.7	14
33	Estimating the reliability of aquifer transmissivity values obtained from specific capacity tests: examples from the Saguenay-Lac-Saint-Jean aquifers, Canada. <i>Hydrological Sciences Journal</i> , 2016, 61, 173-185.	1.2	16
34	Closed-form analytical solutions for assessing the consequences of sea-level rise on unconfined sloping island aquifers. <i>Global and Planetary Change</i> , 2016, 139, 109-115.	1.6	7
35	Comparing various approaches for assessing groundwater recharge at a regional scale in the Canadian Shield. <i>Hydrological Sciences Journal</i> , 2016, 61, 2267-2283.	1.2	26
36	A hydrostratigraphic simplification approach to build 3D groundwater flow numerical models: example of a Quaternary deltaic deposit aquifer. <i>Environmental Earth Sciences</i> , 2015, 74, 4671-4683.	1.3	6

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37	Scenarios of groundwater chemical evolution in a region of the Canadian Shield based on multivariate statistical analysis. <i>Journal of Hydrology: Regional Studies</i> , 2015, 4, 246-266.	1.0	61
38	Imaging Quaternary glacial deposits and basement topography using the transient electromagnetic method for modeling aquifer environments. <i>Journal of Applied Geophysics</i> , 2015, 119, 36-50.	0.9	12
39	Field evidence of hydraulic connections between bedrock aquifers and overlying granular aquifers: examples from the Grenville Province of the Canadian Shield. <i>Hydrogeology Journal</i> , 2014, 22, 1889-1904.	0.9	19
40	Regional recharge assessment in the crystalline bedrock aquifer of the Kenogami Uplands, Canada. <i>Hydrological Sciences Journal</i> , 2013, 58, 421-436.	1.2	18
41	A numerical investigation to illustrate the consequences of hydraulic connections between granular and fractured-rock aquifers. <i>Hydrogeology Journal</i> , 2012, 20, 1669-1680.	0.9	16
42	Building a geodatabase for mapping hydrogeological features and 3D modeling of groundwater systems: Application to the Saguenay-Lac-St.-Jean region, Canada. <i>Computers and Geosciences</i> , 2011, 37, 1870-1882.	2.0	55