Romain Chesnaux

List of Publications by Year
in descending order

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42	734	566801 15	580395 25
papers	citations	h-index	g-index

42	42	42	626
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Scenarios of groundwater chemical evolution in a region of the Canadian Shield based on multivariate statistical analysis. Journal of Hydrology: Regional Studies, 2015, 4, 246-266.	1.0	61
2	Building a geodatabase for mapping hydrogeological features and 3D modeling of groundwater systems: Application to the Saguenayâ€“Lac-St.-Jean region, Canada. Computers and Geosciences, 2011, 37, 1870-1882.	2.0	55
3	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
4	The influence of water/rock â˜ water/clay interactions and mixing in the salinization processes of groundwater. Journal of Hydrology: Regional Studies, 2017, 13, 168-188.	1.0	45
5	A review of existing methods used to evaluate the hydraulic conductivity of a fractured rock mass. Engineering Geology, 2020, 265, 105438.	2.9	43
6	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
7	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
8	Comparing various approaches for assessing groundwater recharge at a regional scale in the Canadian Shield. Hydrological Sciences Journal, 2016, 61, 2267-2283.	1.2	26
9	Advantages and challenges of using soil water isotopes to assess groundwater recharge dominated by snowmelt at a field study located in Canada. Hydrological Sciences Journal, 2018, 63, 679-695.	1.2	24
10	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
11	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
12	Field evidence of hydraulic connections between bedrock aquifers and overlying granular aquifers: examples from the Grenville Province of the Canadian Shield. Hydrogeology Journal, 2014, 22, 1889-1904.	0.9	19
13	Regional recharge assessment in the crystalline bedrock aquifer of the Kenogami Uplands, Canada. Hydrological Sciences Journal, 2013, 58, 421-436.	1.2	18
14	Assessing the potential of cross-contamination from oil and gas hydraulic fracturing: A case study in northeastern British Columbia, Canada. Journal of Environmental Management, 2019, 246, 275-282.	3.8	18
15	Characterization of general and singular features of major aquifer systems in the Saguenay-Lac-Saint-Jean region. Canadian Water Resources Journal, 2018, 43, 75-91.	0.5	17
16	A numerical investigation to illustrate the consequences of hydraulic connections between granular and fractured-rock aquifers. Hydrogeology Journal, 2012, 20, 1669-1680.	0.9	16
17	Estimating the reliability of aquifer transmissivity values obtained from specific capacity tests: examples from the Saguenay-Lac-Saint-Jean aquifers, Canada. Hydrological Sciences Journal, 2016, 61, 173-185.	1.2	16
18	Development of a hydrogeological conceptual wetland model in the data-scarce north-eastern region of Kilombero Valley, Tanzania. Hydrogeology Journal, 2018, 26, 267-284.	0.9	15

#	Article	IF	Citations
19	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
20	Detecting a Defective Casing Seal at the Top of a Bedrock Aquifer. Ground Water, 2016, 54, 296-303.	0.7	14
21	Insights on pumping well interpretation from flow dimension analysis: The learnings of a multi-context field database. Journal of Hydrology, 2018, 556, 449-474.	2.3	13
22	Imaging Quaternary glacial deposits and basement topography using the transient electromagnetic method for modeling aquifer environments. Journal of Applied Geophysics, 2015, 119, 36-50.	0.9	12
23	Using flow dimension sequences to interpret non-uniform aquifers with constant-rate pumping-tests: A review. Journal of Hydrology X, 2019, 2, 100003.	0.8	12
24	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
25	Assessing response times of an alluvial aquifer experiencing seasonally variable meteorological inputs. Groundwater for Sustainable Development, 2021, 14, 100647.	2.3	11
26	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
27	Avoiding confusion between pressure front pulse displacement and groundwater displacement: <scp>I</scp>llustration with the pumping test in a confined aquifer. Hydrological Processes, 2018, 32, 3689-3694.	1.1	9
28	Groundwater recharge over the past 100 years: Regional spatiotemporal assessment and climate change impact over the <scp>Saguenayâ€Lacâ€Saintâ€Jean</scp> region, Canada. Hydrological Processes, 2022, 36, .	1.1	9
29	A numerical investigation of pumping-test responses from contiguous aquifers. Hydrogeology Journal, 2017, 25, 877-894.	0.9	8
30	Subsampling of Regional-Scale Database for improving Multivariate Analysis Interpretation of Groundwater Chemical Evolution and Ion Sources. Geosciences (Switzerland), 2019, 9, 139.	1.0	8
31	Closed-form analytical solutions for assessing the consequences of sea-level rise on unconfined sloping island aquifers. Global and Planetary Change, 2016, 139, 109-115.	1.6	7
32	A simplified geographical information systems (GIS)-based methodology for modeling the topography of bedrock: illustration using the Canadian Shield. Applied Geomatics, 2017, 9, 61-78.	1.2	7
33	AnÃ¡lise do rebaixamento da derivada logarÃtmica para interpretaÃ§Ã£o de teste de bombeamento de taxa constante em aquÃferos de substrato inclinado. Hydrogeology Journal, 2019, 27, 2279-2297.	0.9	7
34	A hydrostratigraphic simplification approach to build 3D groundwater flow numerical models: example of a Quaternary deltaic deposit aquifer. Environmental Earth Sciences, 2015, 74, 4671-4683.	1.3	6
35	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
36	Spatial distribution of soil shear-wave velocity and the fundamental period of vibration â€“ a case study of the Saguenay region, Canada. Georisk, 2018, 12, 74-86.	2.6	4

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37	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
38	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
39	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
40	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
41	Review of Petroleum and Hydrogeology Equations for Characterizing the Pressure Front Diffusion during Pumping Tests. Geosciences (Switzerland), 2022, 12, 201.	1.0	2
42	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