

Martine M Savard

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3203381/publications.pdf>

Version: 2024-02-01

72
papers

2,349
citations

257101

24
h-index

223531

46
g-index

107
all docs

107
docs citations

107
times ranked

2548
citing authors

#	ARTICLE	IF	CITATIONS
1	Multivariate statistical analysis of geochemical data as indicative of the hydrogeochemical evolution of groundwater in a sedimentary rock aquifer system. <i>Journal of Hydrology</i> , 2008, 353, 294-313.	2.3	549
2	Century-Long Source Apportionment of PAHs in Athabasca Oil Sands Region Lakes Using Diagnostic Ratios and Compound-Specific Carbon Isotope Signatures. <i>Environmental Science & Technology</i> , 2013, 47, 6155-6163.	4.6	98
3	Gas permeability, diffusivity and solubility of nitrogen, helium, methane, carbon dioxide and formaldehyde in dense polymeric membranes using a new on-line permeation apparatus. <i>Journal of Membrane Science</i> , 2006, 282, 245-256.	4.1	81
4	Tree-ring stable isotopes and historical perspectives on pollution – An overview. <i>Environmental Pollution</i> , 2010, 158, 2007-2013.	3.7	75
5	Sources of basinal and Mississippi Valley-type mineralizing brines: mixing of evaporated seawater and halite-dissolution brine. <i>Chemical Geology</i> , 1997, 143, 121-125.	1.4	73
6	$\delta^{15}\text{N}$ values of atmospheric N species simultaneously collected using sector-based samplers distant from sources – Isotopic inheritance and fractionation. <i>Atmospheric Environment</i> , 2017, 162, 11-22.	1.9	64
7	Hydrogeochemistry and groundwater origin of the Basses-Laurentides sedimentary rock aquifer system, St. Lawrence Lowlands, QuÃ©bec, Canada. <i>Hydrogeology Journal</i> , 2006, 14, 573-590.	0.9	61
8	Hydrothermal origin of Devonian conical mounds (kess-kess) of Hamar Lakhdad Ridge, Anti-Atlas, Morocco. <i>Geology</i> , 1998, 26, 1123.	2.0	60
9	Characterization and Quantification of Mining-Related α -Naphthenic Acids in Groundwater near a Major Oil Sands Tailings Pond. <i>Environmental Science & Technology</i> , 2013, 47, 5023-5030.	4.6	60
10	Tree-Ring Nitrogen Isotopes Reflect Anthropogenic NO_x Emissions and Climatic Effects. <i>Environmental Science & Technology</i> , 2009, 43, 604-609.	4.6	53
11	Isotopic Evidence for Oil Sands Petroleum Coke in the Peace–Athabasca Delta. <i>Environmental Science & Technology</i> , 2015, 49, 12062-12070.	4.6	47
12	Nitrate isotopes unveil distinct seasonal N-sources and the critical role of crop residues in groundwater contamination. <i>Journal of Hydrology</i> , 2010, 381, 134-141.	2.3	46
13	Determination of the origin of groundwater nitrate at an air weapons range using the dual isotope approach. <i>Journal of Contaminant Hydrology</i> , 2008, 98, 97-105.	1.6	45
14	Winter nitrification contributes to excess NO_3^- in groundwater of an agricultural region: A dual-isotope study. <i>Water Resources Research</i> , 2007, 43, .	1.7	43
15	Groundwater nitrate concentration evolution under climate change and agricultural adaptation scenarios: Prince Edward Island, Canada. <i>Earth System Dynamics</i> , 2016, 7, 183-202.	2.7	42
16	Nitrogen and triple oxygen isotopes in near-road air samples using chemical conversion and thermal decomposition. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 2791-2804.	0.7	40
17	Desalination of a sedimentary rock aquifer system invaded by Pleistocene Champlain Sea water and processes controlling groundwater geochemistry. <i>Environmental Earth Sciences</i> , 2010, 59, 977-994.	1.3	39
18	Source Apportionment of Background PAHs in the Peace-Athabasca Delta (Alberta, Canada) Using Molecular Level Radiocarbon Analysis. <i>Environmental Science & Technology</i> , 2015, 49, 9056-9063.	4.6	38

#	ARTICLE	IF	CITATIONS
19	Fluid inclusion and carbon, oxygen, and strontium isotope study of the Polaris Mississippi Valley-type Zn-Pb deposit, Canadian Arctic Archipelago: implications for ore genesis. <i>Mineralium Deposita</i> , 2000, 35, 495-510.	1.7	36
20	Lead concentrations and isotope ratios in the exchangeable fraction: tracing soil contamination near a copper smelter. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2006, 6, 229-236.	0.5	35
21	Effects of Smelter Sulfur Dioxide Emissions. <i>Journal of Environmental Quality</i> , 2004, 33, 13-26.	1.0	32
22	Dendrogeochemical distinction between geogenic and anthropogenic emissions of metals and gases near a copper smelter. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2006, 6, 237-247.	0.5	32
23	Assessing tree-ring carbon and oxygen stable isotopes for climate reconstruction in the Canadian northeastern boreal forest. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 423, 91-101.	1.0	32
24	Sedimentologic, diagenetic and tectonic evolution of the Saint-Flavien gas reservoir at the structural front of the Quebec Appalachians. <i>Bulletin of Canadian Petroleum Geology</i> , 2003, 51, 126-154.	0.3	31
25	Extraction, Separation, and Intramolecular Carbon Isotope Characterization of Athabasca Oil Sands Acids in Environmental Samples. <i>Analytical Chemistry</i> , 2012, 84, 10419-10425.	3.2	25
26	Is wood pre-treatment essential for tree-ring nitrogen concentration and isotope analysis?. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 469-475.	0.7	24
27	Evaluating in situ biodegradation of ¹³ C-labelled naphthenic acids in groundwater near oil sands tailings ponds. <i>Science of the Total Environment</i> , 2018, 643, 392-399.	3.9	24
28	Distinguishing Natural from Anthropogenic Sources of Acid Extractable Organics in Groundwater near Oil Sands Tailings Ponds. <i>Environmental Science & Technology</i> , 2020, 54, 2790-2799.	4.6	23
29	Are industrial SO ₂ emissions reducing CO ₂ uptake by the boreal forest?. <i>Geology</i> , 2002, 30, 403.	2.0	21
30	Effects of Smelter Sulfur Dioxide Emissions. <i>Journal of Environmental Quality</i> , 2004, 33, 13.	1.0	20
31	Fractionation change of hydrogen isotopes in trees due to atmospheric pollutants. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3723-3731.	1.6	20
32	Modelling tree ring cellulose ¹⁸ O variations in two temperature-sensitive tree species from North and South America. <i>Climate of the Past</i> , 2017, 13, 1515-1526.	1.3	20
33	Basinal fluid flow models related to Zn-Pb mineralization in the southern margin of the Maritimes Basin, Eastern Canada. <i>Economic Geology</i> , 1998, 93, 896-910.	1.8	19
34	Multiple origin and regional significance of bedding parallel veins in a fold and thrust belt: The example of a carbonate slice along the Appalachian structural front. <i>Tectonophysics</i> , 2005, 407, 189-209.	0.9	19
35	Evaluating the integrity of C and O isotopes in sub-fossil wood from boreal lakes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 348-349, 21-31.	1.0	19
36	Tree-ring ¹⁵ N values to infer air quality changes at regional scale. <i>Chemical Geology</i> , 2012, 320-321, 9-16.	1.4	19

#	ARTICLE	IF	CITATIONS
37	A log-normal spectral analysis of inorganic grain-size distributions from a Canadian boreal lake core: Towards refining depositional process proxy data from high latitude lakes. <i>Sedimentology</i> , 2017, 64, 609-630.	1.6	19
38	Lake-sediment record of PAH, mercury, and fly-ash particle deposition near coal-fired power plants in Central Alberta, Canada. <i>Environmental Pollution</i> , 2017, 231, 644-653.	3.7	18
39	Multi-scale nitrate transport in a sandstone aquifer system under intensive agriculture. <i>Hydrogeology Journal</i> , 2018, 26, 511-531.	0.9	18
40	The $\delta^{17}\text{O}$ and $\delta^{18}\text{O}$ values of atmospheric nitrates simultaneously collected downwind of anthropogenic sources – implications for polluted air masses. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10373-10389.	1.9	18
41	A geoscientific perspective on airborne smelter emissions of metals in the environment: an overview. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2006, 6, 99-109.	0.5	17
42	Evaporative emissions from tailings ponds are not likely an important source of airborne PAHs in the Athabasca oil sands region. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2439.	3.3	17
43	Combining tree-ring metal concentrations and lead, carbon and oxygen isotopes to reconstruct peri-urban atmospheric pollution. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 19005.	0.8	16
44	Isotopic Analyses Fingerprint Sources of Polycyclic Aromatic Compound-Bearing Dust in Athabasca Oil Sands Region Snowpack. <i>Environmental Science & Technology</i> , 2021, 55, 5887-5897.	4.6	16
45	Cation study of fluid inclusion decrepitates in the Jubilee and Gays River (Canada) Zn-Pb deposits; characterization of ore-forming brines. <i>Economic Geology</i> , 1998, 93, 920-931.	1.8	16
46	Occurrence of High In-Stream Nitrite Levels in a Temperate Region Agricultural Watershed. <i>Water, Air, and Soil Pollution</i> , 2010, 206, 335-347.	1.1	15
47	Characterization of the boron, lithium, and strontium isotopic variations of oil sands process-affected water in Alberta, Canada. <i>Applied Geochemistry</i> , 2018, 90, 50-62.	1.4	13
48	Response strategies of boreal spruce trees to anthropogenic changes in air quality and rising pCO ₂ . <i>Environmental Pollution</i> , 2020, 261, 114209.	3.7	13
49	$\delta^{13}\text{C}$ - $\delta^{18}\text{O}$ - $^{87}\text{Sr}/^{86}\text{Sr}$ covariations in ore-stage calcites at and around the Gays River Zn-Pb deposit (Nova Scotia, Canada); evidence for fluid mixing. <i>Economic Geology</i> , 1998, 93, 818-833.	1.8	11
50	A structural, petrographic, and geochemical study of the Jubilee Zn-Pb deposit, Nova Scotia, Canada, and a new metallogenic model. <i>Economic Geology</i> , 1998, 93, 757-778.	1.8	11
51	Nitrate Leaching from Potato Production in Eastern Canada. , 2012, , 233-250.		11
52	An overview on isotopic divergences – causes for instability of tree-ring isotopes and climate correlations. <i>Climate of the Past</i> , 2020, 16, 1223-1243.	1.3	10
53	Isotope geochemistry of sideritized host rocks, Walton Ba deposit, Kennetcook Sub-basin, Nova Scotia, Canada. <i>Economic Geology</i> , 1998, 93, 834-844.	1.8	9
54	Nitrogen isotopes of individual tree-ring series – The validity of middle- to long-term trends. <i>Dendrochronologia</i> , 2020, 62, 125726.	1.0	9

#	ARTICLE	IF	CITATIONS
55	Modelling carbon isotopes in spruce trees reproduces air quality changes due to oil sands operations. <i>Ecological Indicators</i> , 2014, 45, 1-8.	2.6	8
56	Relevance of using whole-ring stable isotopes of black spruce trees in the perspective of climate reconstruction. <i>Dendrochronologia</i> , 2018, 50, 64-69.	1.0	8
57	Tree-ring stable isotopes for regional discharge reconstruction in eastern Labrador and teleconnection with the Arctic Oscillation. <i>Climate Dynamics</i> , 2019, 53, 3625-3640.	1.7	8
58	Nitrogen isotopes in the soil-to-tree continuum – Tree rings express the soil biogeochemistry of boreal forests exposed to moderate airborne emissions. <i>Science of the Total Environment</i> , 2021, 780, 146581.	3.9	8
59	Underestimation of the Tambora effects in North American taiga ecosystems. <i>Environmental Research Letters</i> , 2018, 13, 034017.	2.2	7
60	Impacts of smelter atmospheric emissions on forest nutrient cycles: Evidence from soils and tree rings. <i>Science of the Total Environment</i> , 2021, 751, 141427.	3.9	7
61	Breccias in the lower part of the Mississippian Windsor Group and their relation to Zn-Pb mineralization; a summary. <i>Economic Geology</i> , 1998, 93, 734-745.	1.8	6
62	Stable Isotopes of Nitrate Reflect Natural Attenuation of Propellant Residues on Military Training Ranges. <i>Environmental Science & Technology</i> , 2013, 47, 130711065904000.	4.6	5
63	Chapter 9 Air Quality Changes in an Urban Region as Inferred from Tree-Ring Stable Isotopes. <i>Developments in Environmental Science</i> , 2009, 9, 229-245.	0.5	4
64	Considerations for the mitigation of nitrate contamination: stable isotopes and insights into the importance of soil processes. <i>Water Science and Technology</i> , 2011, 64, 1254-1260.	1.2	4
65	Membrane permeation continuous-flow isotope ratio mass spectrometry for online carbon isotope ratio determination. <i>Rapid Communications in Mass Spectrometry</i> , 2009, 23, 2213-2220.	0.7	3
66	Shorter fries? An alternative policy to support a reduction of nitrogen contamination from agricultural crop production. <i>Environmental Science and Policy</i> , 2015, 47, 177-185.	2.4	3
67	Perspective on smelter emissions of metals in the environment: an introduction. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2006, 6, 98-98.	0.5	3
68	Anthropogenic N – A global issue examined at regional scale from soils, to fungi, roots and tree rings. <i>E3S Web of Conferences</i> , 2019, 98, 13001.	0.2	2
69	Treatment Protocol for Using Tree-ring Zn Isotopes for Environmental Studies. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 142-146.	0.6	1
70	Impact of Increasing CO ₂ , and Air Pollutants (NO _x , SO ₂ , O ₃) on the Stable Isotope Ratios in Tree Rings. <i>Tree Physiology</i> , 2022, , 675-710.	0.9	1
71	Geochemistry of oil inclusions in sulfide-related calcites – fingerprinting the source of the sulfate-reducing hydrocarbons of the Pb-Zn carbonate-hosted Jubilee deposit of Nova Scotia, Canada. <i>Applied Geochemistry</i> , 2002, 17, 69-77.	1.4	0
72	Triple Isotopic Ratios to Characterize Atmospheric N Compounds in Alberta – Work in Progress. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 316-319.	0.6	0