

Martine M Savard

List of Publications by Year in descending order

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72
papers

2,349
citations

257450
24
h-index

223800
46
g-index

107
all docs

107
docs citations

107
times ranked

2548
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.6	16
2	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.	2.5	1
3	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.	8.0	7
4	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.	10.0	16
5	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.	8.0	8
6	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.	10.0	23
7	Response strategies of boreal spruce trees to anthropogenic changes in air quality and rising pCO ₂ . <i>Environmental Pollution</i> , 2020, 261, 114209.	7.5	13
8	Nitrogen isotopes of individual tree-ring series – The validity of middle- to long-term trends. <i>Dendrochronologia</i> , 2020, 62, 125726.	2.2	9
9	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.	3.4	10
10	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.	0.5	2
11	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.	3.8	8
12	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.	3.0	13
13	Multi-scale nitrate transport in a sandstone aquifer system under intensive agriculture. <i>Hydrogeology Journal</i> , 2018, 26, 511-531.	2.1	18
14	Underestimation of the Tambora effects in North American taiga ecosystems. <i>Environmental Research Letters</i> , 2018, 13, 034017.	5.2	7
15	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.	4.9	18
16	Relevance of using whole-ring stable isotopes of black spruce trees in the perspective of climate reconstruction. <i>Dendrochronologia</i> , 2018, 50, 64-69.	2.2	8
17	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.	8.0	24
18	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.	3.1	19

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19	$\delta^{15}\text{N}$ 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.	4.1	64
20	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.	7.5	18
21	Modelling tree ring cellulose $\delta^{18}\text{O}$ variations in two temperature-sensitive tree species from North and South America. <i>Climate of the Past</i> , 2017, 13, 1515-1526.	3.4	20
22	Groundwater nitrate concentration evolution under climate change and agricultural adaptation scenarios: Prince Edward Island, Canada. <i>Earth System Dynamics</i> , 2016, 7, 183-202.	7.1	42
23	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
24	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.	4.9	3
25	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.	2.3	32
26	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.	10.0	38
27	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
28	Isotopic Evidence for Oil Sands Petroleum Coke in the Peace-Athabasca Delta. <i>Environmental Science & Technology</i> , 2015, 49, 12062-12070.	10.0	47
29	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.	7.1	17
30	Modelling carbon isotopes in spruce trees reproduces air quality changes due to oil sands operations. <i>Ecological Indicators</i> , 2014, 45, 1-8.	6.3	8
31	Stable Isotopes of Nitrate Reflect Natural Attenuation of Propellant Residues on Military Training Ranges. <i>Environmental Science & Technology</i> , 2013, 47, 130711065904000.	10.0	5
32	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.	10.0	98
33	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.	10.0	60
34	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.	1.5	40
35	Extraction, Separation, and Intramolecular Carbon Isotope Characterization of Athabasca Oil Sands Acids in Environmental Samples. <i>Analytical Chemistry</i> , 2012, 84, 10419-10425.	6.5	25
36	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.	2.3	19

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37	Tree-ring $\delta^{15}\text{N}$ values to infer air quality changes at regional scale. Chemical Geology, 2012, 320-321, 9-16.	3.3	19
38	Nitrate Leaching from Potato Production in Eastern Canada. , 2012, , 233-250.		11
39	Is wood pretreatment essential for tree-ring nitrogen concentration and isotope analysis?. Rapid Communications in Mass Spectrometry, 2011, 25, 469-475.	1.5	24
40	Considerations for the mitigation of nitrate contamination: stable isotopes and insights into the importance of soil processes. Water Science and Technology, 2011, 64, 1254-1260.	2.5	4
41	Desalination of a sedimentary rock aquifer system invaded by Pleistocene Champlain Sea water and processes controlling groundwater geochemistry. Environmental Earth Sciences, 2010, 59, 977-994.	2.7	39
42	Occurrence of High In-Stream Nitrite Levels in a Temperate Region Agricultural Watershed. Water, Air, and Soil Pollution, 2010, 206, 335-347.	2.4	15
43	Nitrate isotopes unveil distinct seasonal N-sources and the critical role of crop residues in groundwater contamination. Journal of Hydrology, 2010, 381, 134-141.	5.4	46
44	Tree-ring stable isotopes and historical perspectives on pollution – An overview. Environmental Pollution, 2010, 158, 2007-2013.	7.5	75
45	Chapter 9 Air Quality Changes in an Urban Region as Inferred from Tree-Ring Stable Isotopes. Developments in Environmental Science, 2009, 9, 229-245.	0.5	4
46	Membrane permeation continuous-flow isotope ratio mass spectrometry for on-line carbon isotope ratio determination. Rapid Communications in Mass Spectrometry, 2009, 23, 2213-2220.	1.5	3
47	Tree-Ring Nitrogen Isotopes Reflect Anthropogenic NO_x Emissions and Climatic Effects. Environmental Science & Technology, 2009, 43, 604-609.	10.0	53
48	Determination of the origin of groundwater nitrate at an air weapons range using the dual isotope approach. Journal of Contaminant Hydrology, 2008, 98, 97-105.	3.3	45
49	Multivariate statistical analysis of geochemical data as indicative of the hydrogeochemical evolution of groundwater in a sedimentary rock aquifer system. Journal of Hydrology, 2008, 353, 294-313.	5.4	549
50	Winter nitrification contributes to excess NO_3^- in groundwater of an agricultural region: A dual-isotope study. Water Resources Research, 2007, 43, .	4.2	43
51	A geoscientific perspective on airborne smelter emissions of metals in the environment: an overview. Geochemistry: Exploration, Environment, Analysis, 2006, 6, 99-109.	0.9	17
52	Dendrogeochemical distinction between geogenic and anthropogenic emissions of metals and gases near a copper smelter. Geochemistry: Exploration, Environment, Analysis, 2006, 6, 237-247.	0.9	32
53	Lead concentrations and isotope ratios in the exchangeable fraction: tracing soil contamination near a copper smelter. Geochemistry: Exploration, Environment, Analysis, 2006, 6, 229-236.	0.9	35
54	Gas permeability, diffusivity and solubility of nitrogen, helium, methane, carbon dioxide and formaldehyde in dense polymeric membranes using a new on-line permeation apparatus. Journal of Membrane Science, 2006, 282, 245-256.	8.2	81

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55	Hydrogeochemistry and groundwater origin of the Basses-Laurentides sedimentary rock aquifer system, St. Lawrence Lowlands, Qu�bec, Canada. Hydrogeology Journal, 2006, 14, 573-590.	2.1	61
56	Perspective on smelter emissions of metals in the environment:an introduction. Geochemistry: Exploration, Environment, Analysis, 2006, 6, 98-98.	0.9	3
57	Fractionation change of hydrogen isotopes in trees due to atmospheric pollutants. Geochimica Et Cosmochimica Acta, 2005, 69, 3723-3731.	3.9	20
58	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. Tectonophysics, 2005, 407, 189-209.	2.2	19
59	Effects of Smelter Sulfur Dioxide Emissions. Journal of Environmental Quality, 2004, 33, 13-26.	2.0	32
60	Effects of Smelter Sulfur Dioxide Emissions. Journal of Environmental Quality, 2004, 33, 13.	2.0	20
61	Sedimentologic, diagenetic and tectonic evolution of the Saint-Flavien gas reservoir at the structural front of the Quebec Appalachians. Bullentin of Canadian Petroleum Geology, 2003, 51, 126-154.	0.3	31
62	Are industrial SO2 emissions reducing CO2 uptake by the boreal forest?. Geology, 2002, 30, 403.	4.4	21
63	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. Applied Geochemistry, 2002, 17, 69-77.	3.0	0
64	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. Mineralium Deposita, 2000, 35, 495-510.	4.1	36
65	delta 13 C-delta 18 O- 87 Sr/ 86 Sr covariations in ore-stage calcites at and around the Gays River Zn-Pb deposit (Nova Scotia, Canada); evidence for fluid mixing. Economic Geology, 1998, 93, 818-833.	3.8	11
66	Isotope geochemistry of sideritized host rocks, Walton Ba deposit, Kennetcook Sub-basin, Nova Scotia, Canada. Economic Geology, 1998, 93, 834-844.	3.8	9
67	Hydrothermal origin of Devonian conical mounds (kess-kess) of Hamar Lakhdad Ridge, Anti-Atlas, Morocco. Geology, 1998, 26, 1123.	4.4	60
68	Basinal fluid flow models related to Zn-Pb mineralization in the southern margin of the Maritimes Basin, Eastern Canada. Economic Geology, 1998, 93, 896-910.	3.8	19
69	Breccias in the lower part of the Mississippian Windsor Group and their relation to Zn-Pb mineralization; a summary. Economic Geology, 1998, 93, 734-745.	3.8	6
70	A structural, petrographic, and geochemical study of the Jubilee Zn-Pb deposit, Nova Scotia, Canada, and a new metallogenic model. Economic Geology, 1998, 93, 757-778.	3.8	11
71	Cation study of fluid inclusion decrepitates in the Jubilee and Gays River (Canada) Zn-Pb deposits; characterization of ore-forming brines. Economic Geology, 1998, 93, 920-931.	3.8	16
72	Sources of basinal and Mississippi Valley-type mineralizing brines: mixing of evaporated seawater and halite-dissolution brine. Chemical Geology, 1997, 143, 121-125.	3.3	73