

# Romain Millot

## List of Publications by Year in descending order

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76  
papers

4,446  
citations

94381

37  
h-index

102432

66  
g-index

79  
all docs

79  
docs citations

79  
times ranked

3921  
citing authors

#	ARTICLE	IF	CITATIONS
1	The global control of silicate weathering rates and the coupling with physical erosion: new insights from rivers of the Canadian Shield. <i>Earth and Planetary Science Letters</i> , 2002, 196, 83-98.	1.8	394
2	Northern latitude chemical weathering rates: clues from the Mackenzie River Basin, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1305-1329.	1.6	297
3	Quantifying Li isotope fractionation during smectite formation and implications for the Li cycle. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 780-792.	1.6	266
4	Behaviour of lithium and its isotopes during weathering in the Mackenzie Basin, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3897-3912.	1.6	204
5	Rivers, chemical weathering and Earth's climate. <i>Comptes Rendus - Geoscience</i> , 2003, 335, 1141-1160.	0.4	200
6	Lead isotopic systematics of major river sediments: a new estimate of the Pb isotopic composition of the Upper Continental Crust. <i>Chemical Geology</i> , 2004, 203, 75-90.	1.4	160
7	Accurate and High-Precision Measurement of Lithium Isotopes in Two Reference Materials by MC-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 153-159.	2.0	157
8	The relationship between riverine lithium isotope composition and silicate weathering rates in Iceland. <i>Earth and Planetary Science Letters</i> , 2009, 287, 434-441.	1.8	150
9	Lithium isotope systematics in a forested granitic catchment (Strengbach, Vosges Mountains, France). <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4612-4628.	1.6	145
10	New Tracers Identify Hydraulic Fracturing Fluids and Accidental Releases from Oil and Gas Operations. <i>Environmental Science &amp; Technology</i> , 2014, 48, 12552-12560.	4.6	136
11	The geochemistry of naturally occurring methane and saline groundwater in an area of unconventional shale gas development. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 208, 302-334.	1.6	121
12	Major geochemical characteristics of geothermal brines from the Upper Rhine Graben granitic basement with constraints on temperature and circulation. <i>Chemical Geology</i> , 2016, 428, 27-47.	1.4	116
13	Multi-isotopic composition ( $^7\text{Li}$ – $^{11}\text{B}$ – $^{18}\text{O}$ ) of rainwaters in France: Origin and spatio-temporal characterization. <i>Applied Geochemistry</i> , 2010, 25, 1510-1524.	1.4	109
14	Geochemistry and arsenic behaviour in groundwater resources of the Pannonian Basin (Hungary and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	1.4	108
15	Lithium isotopes in island arc geothermal systems: Guadeloupe, Martinique (French West Indies) and experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 1852-1871.	1.6	107
16	Processes controlling the stable isotope compositions of Li, B, Mg and Ca in plants, soils and waters: A review. <i>Comptes Rendus - Geoscience</i> , 2012, 344, 704-722.	0.4	98
17	Chemical denudation rates of the western Canadian orogenic belt: the Stikine terrane. <i>Chemical Geology</i> , 2003, 201, 257-279.	1.4	91
18	Chemical and strontium isotope characterization of rainwater in France: influence of sources and hydrogeochemical implications. <i>Isotopes in Environmental and Health Studies</i> , 2007, 43, 179-196.	0.5	75

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19	Experimental determination of the role of diffusion on Li isotope fractionation during basaltic glass weathering. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3452-3468.	1.6	74
20	Multi-isotopic (Li, B, Sr, Nd) approach for geothermal reservoir characterization in the Limagne Basin (Massif Central, France). <i>Applied Geochemistry</i> , 2007, 22, 2307-2325.	1.4	73
21	Multi-isotopic tracing ( $^7\text{Li}$ , $^{11}\text{B}$ , $^{87}\text{Sr}/^{86}\text{Sr}$ ) and chemical geothermometry: evidence from hydro-geothermal systems in France. <i>Chemical Geology</i> , 2007, 244, 664-678.	1.4	65
22	Chemical, multi-isotopic (Li-B-Sr-O) and thermal characterization of Triassic formation waters from the Paris Basin. <i>Chemical Geology</i> , 2011, 283, 226-241.	1.4	65
23	Geothermal waters from the Taupo Volcanic Zone, New Zealand: Li, B and Sr isotopes characterization. <i>Applied Geochemistry</i> , 2012, 27, 677-688.	1.4	65
24	Main characteristics of the deep geothermal brine (5-10 km) at Soultz-sous-Forêts (France) determined using geochemical and tracer test data. <i>Comptes Rendus - Geoscience</i> , 2010, 342, 546-559.	0.4	63
25	Microbial Sulfate Reduction Enhances Arsenic Mobility Downstream of Zerovalent-Iron-Based Permeable Reactive Barrier. <i>Environmental Science &amp; Technology</i> , 2016, 50, 7610-7617.	4.6	63
26	The genesis of LCT-type granitic pegmatites, as illustrated by lithium isotopes in micas. <i>Chemical Geology</i> , 2015, 411, 97-111.	1.4	57
27	Accurate and High-Precision Determination of Boron Isotopic Ratios at Low Concentration by MC-ICP-MS (Neptune). <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 275-284.	1.7	53
28	Lithium isotopes as tracers of groundwater circulation in a peat land. <i>Chemical Geology</i> , 2010, 276, 119-127.	1.4	50
29	Lithium-rich geothermal brines in Europe: An up-date about geochemical characteristics and implications for potential Li resources. <i>Geothermics</i> , 2022, 101, 102385.	1.5	50
30	Three Secondary Reference Materials for Lithium Isotope Measurements: Li7-N, Li6-N and LiCl-N Solutions. <i>Geostandards and Geoanalytical Research</i> , 2007, 31, 7-12.	2.0	43
31	Use of two new Na/Li geothermometric relationships for geothermal fluids in volcanic environments. <i>Chemical Geology</i> , 2014, 389, 60-81.	1.4	43
32	Redox controls on methane formation, migration and fate in shallow aquifers. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 2759-2777.	1.9	40
33	Heterogeneities and interconnections in groundwaters: Coupled B, Li and stable-isotope variations in a large aquifer system (Eocene Sand aquifer, Southwestern France). <i>Chemical Geology</i> , 2012, 296-297, 83-95.	1.4	39
34	CO <sub>2</sub> -water-mineral reactions during CO <sub>2</sub> leakage: Geochemical and isotopic monitoring of a CO <sub>2</sub> injection field test. <i>Chemical Geology</i> , 2014, 368, 11-30.	1.4	39
35	Long-term fluxes of dissolved and suspended matter in the Ebro River Basin (Spain). <i>Journal of Hydrology</i> , 2007, 342, 249-260.	2.3	38
36	Isotope and Ion Selectivity in Reverse Osmosis Desalination: Geochemical Tracers for Man-made Freshwater. <i>Environmental Science &amp; Technology</i> , 2008, 42, 4723-4731.	4.6	38

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37	Lead isotopes in groundwater as an indicator of water-rock interaction (Masheshwaram catchment, Tj ETQq1 1,0,784314,rgBT /Ome	1.4	38
38	Tracing water cycle in regulated basin using stable $^{18}\text{O}$ and $^2\text{H}$ isotopes: The Ebro river basin (Spain). <i>Chemical Geology</i> , 2016, 422, 71-81.	1.4	36
39	B and Li isotopes as intrinsic tracers for injection tests in aquifer storage and recovery systems. <i>Applied Geochemistry</i> , 2009, 24, 1214-1223.	1.4	35
40	Monitoring Reverse Osmosis Treated Wastewater Recharge into a Coastal Aquifer by Environmental Isotopes (B, Li, O, H). <i>Environmental Science &amp; Technology</i> , 2008, 42, 8759-8765.	4.6	34
41	Lithium isotopes in hydrothermally altered basalts from Hengill (SW Iceland). <i>Earth and Planetary Science Letters</i> , 2015, 411, 62-71.	1.8	32
42	Topographic and Faults Control of Hydrothermal Circulation Along Dormant Faults in an Orogen. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4972-4995.	1.0	32
43	High temperature instruments and methods developed for supercritical geothermal reservoir characterisation and exploitation - The HiTI project. <i>Geothermics</i> , 2014, 49, 90-98.	1.5	27
44	Microbial and mineral evolution in zero valent iron-based permeable reactive barriers during long-term operations. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5960-5968.	2.7	26
45	Boron, lithium and methane isotope composition of hyperalkaline waters (Northern Apennines, Italy): Terrestrial serpentinization or mixing with brine?. <i>Applied Geochemistry</i> , 2013, 32, 17-25.	1.4	25
46	Isotopic methods give clues about the origins of trace metals and organic pollutants in the environment. <i>TrAC - Trends in Analytical Chemistry</i> , 2012, 38, 143-153.	5.8	20
47	Stable Isotopes (Li, O, H) Combined with Brine Chemistry: Powerful Tracers for Li Origins in Salar Deposits from the Puna Region, Argentina. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 307-311.	0.6	20
48	Insights from the salinity origins and interconnections of aquifers in a regional scale sedimentary aquifer system (Adour-Garonne district, SW France): Contributions of $^{34}\text{S}$ and $^{18}\text{O}$ from dissolved sulfates and the $^{87}\text{Sr}/^{86}\text{Sr}$ ratio. <i>Applied Geochemistry</i> , 2015, 53, 27-41.	1.4	20
49	Sulfur and oxygen isotope tracing in zero valent iron based In situ remediation system for metal contaminants. <i>Chemosphere</i> , 2013, 90, 1366-1371.	4.2	18
50	Influence of methane addition on selenium isotope sensitivity and their spectral interferences. <i>Journal of Mass Spectrometry</i> , 2011, 46, 182-188.	0.7	15
51	Isotopic Fingerprints for Delineating the Environmental Effects of Hydraulic Fracturing Fluids. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 244-247.	0.6	15
52	Coupling DGT passive samplers and multi-collector ICP-MS: A new tool to measure Pb and Zn isotopes composition in dilute aqueous solutions. <i>Chemical Geology</i> , 2017, 450, 122-134.	1.4	15
53	Lithium isotopes in the Loire River Basin (France): Hydrogeochemical characterizations at two complementary scales. <i>Applied Geochemistry</i> , 2021, 125, 104831.	1.4	14
54	Lithium Isotope Fingerprints in Coal and Coal Combustion Residuals from the United States. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 134-137.	0.6	13

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55	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
56	Behaviour of Li isotopes during regolith formation on granite (Massif Central, France): Controls on the dissolved load in water, saprolite, soil and sediment. <i>Chemical Geology</i> , 2019, 523, 121-132.	1.4	13
57	Prospects and Limitations of Chemical and Isotopic Groundwater Monitoring to Assess the Potential Environmental Impacts of Unconventional Oil and Gas Development. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 320-323.	0.6	12
58	Li and $\delta^{7}\text{Li}$ as proxies for weathering and anthropogenic activities: Application to the Dommel River (meuse basin). <i>Applied Geochemistry</i> , 2020, 120, 104674.	1.4	12
59	Lead isotopes tracing weathering and atmospheric deposition in a small volcanic catchment. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 236-246.	0.4	10
60	Lead Isotope Systematics in Groundwater: Implications for Source Tracing in Different Aquifer Types. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 7-10.	0.6	8
61	Using DGT Passive Samplers and MC-ICPMS to Determine Pb and Zn Isotopic Signature of Natural Water. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 76-79.	0.6	7
62	Ca and Sr isotope constraints on chemical weathering processes: A view through the Ebro river basin, Spain. <i>Chemical Geology</i> , 2021, 578, 120324.	1.4	6
63	Traceurs isotopiques : sources et processus. <i>Oil and Gas Science and Technology</i> , 2005, 60, 923-935.	1.4	5
64	Impact of Rock Weathering on the Chemical Composition of Groundwater Determined by Inverse Modeling in Large Sedimentary Basins. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 615-619.	0.6	5
65	A multi-isotope baseline (O, H, C, S, Sr, B, Li, U) to assess leakage processes in the deep aquifers of the Paris basin (France). <i>Applied Geochemistry</i> , 2021, 131, 105011.	1.4	5
66	A multi-isotopic study of the groundwaters from the Lower Triassic Sandstones aquifer of northeastern France: Groundwater origin, mixing and flowing velocity. <i>Applied Geochemistry</i> , 2021, 131, 105012.	1.4	4
67	Chemical Weathering of Granitic Rocks: An Experimental Approach and Pb-Li Isotope Tracing. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 590-593.	0.6	3
68	Geochemical Study of a Crater Lake: Lake Pavin, France: A View through Li-O-H Isotopes. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 189-193.	0.6	3
69	Stable Isotopes of Lithium as Indicators of Coal Seam Gas-bearing Aquifers. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 278-281.	0.6	3
70	Sr Isotopes as Mixing and Lithological Tracers; The Ebro River Basin. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 782-785.	0.6	3
71	Using ion and isotope characterization to design a frame of protection of a wetland system (Massif Tj ETQq1 1 0.784314 rgBT /Overbo	1.4	2
72	Reinforcing the origin of volcanic rocks from the Massif Central through the isotopic composition of lead and strontium. <i>Journal of Geochemical Exploration</i> , 2015, 153, 79-87.	1.5	2

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73	U Isotope Systematics of Groundwaters from the Triassic Aquifer of the Northeastern Paris Basin and of the Rhine Graben, France. <i>Procedia Earth and Planetary Science</i> , 2015, 13, 112-115.	0.6	1
74	Boron Isotope Characterization to Design a Frame of Hydrogeological Functioning of a Wetland System (Massif Central, France). <i>Procedia Earth and Planetary Science</i> , 2015, 13, 11-15.	0.6	0
75	Chemical weathering of a granitic watershed: coupling Lithium isotopes and reactive transport modeling, preliminary results. <i>E3S Web of Conferences</i> , 2019, 98, 12014.	0.2	0
76	Preface " Special issue applied geochemistry: Innovative methods for characterizing evolution and budgets in water/rock systems: A tribute to Tom Bullen and Stepan Shvartsev. <i>Applied Geochemistry</i> , 2021, 127, 104892.	1.4	0