

Pascale Louvat

List of Publications by Year in descending order

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55
papers

5,225
citations

172457

29
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161849

54
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55
all docs

55
docs citations

55
times ranked

4585
citing authors

#	ARTICLE	IF	CITATIONS
1	Global silicate weathering and CO ₂ consumption rates deduced from the chemistry of large rivers. <i>Chemical Geology</i> , 1999, 159, 3-30.	3.3	2,300
2	Present denudation rates on the island of Réunion determined by river geochemistry: Basalt weathering and mass budget between chemical and mechanical erosions. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 3645-3669.	3.9	277
3	Riverine Li isotope fractionation in the Amazon River basin controlled by the weathering regimes. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 71-93.	3.9	192
4	The fundamental role of island arc weathering in the oceanic Sr isotope budget. <i>Earth and Planetary Science Letters</i> , 2010, 292, 51-56.	4.4	161
5	Zinc Isotopic Fractionation: Why Organic Matters. <i>Environmental Science & Technology</i> , 2009, 43, 5747-5754.	10.0	142
6	Lithium isotopes in large rivers reveal the cannibalistic nature of modern continental weathering and erosion. <i>Earth and Planetary Science Letters</i> , 2014, 401, 359-372.	4.4	137
7	Riverine erosion rates on Sao Miguel volcanic island, Azores archipelago. <i>Chemical Geology</i> , 1998, 148, 177-200.	3.3	132
8	Zinc Isotopes in the Seine River Waters, France: A Probe of Anthropogenic Contamination. <i>Environmental Science & Technology</i> , 2008, 42, 6494-6501.	10.0	129
9	Accuracy of stable Mg and Ca isotope data obtained by MC-ICP-MS using the standard addition method. <i>Chemical Geology</i> , 2008, 257, 65-75.	3.3	120
10	Mg isotope constraints on soil pore-fluid chemistry: Evidence from Santa Cruz, California. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 3883-3896.	3.9	118
11	Iron isotopes in an Archean ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 443-462.	3.9	118
12	Interlaboratory comparison of boron isotope analyses of boric acid, seawater and marine CaCO ₃ by MC-ICPMS and NTIMS. <i>Chemical Geology</i> , 2013, 358, 1-14.	3.3	112
13	Floodplains of large rivers: Weathering reactors or simple silos?. <i>Chemical Geology</i> , 2012, 332-333, 166-184.	3.3	96
14	Positive correlation between Li and Mg isotope ratios in the river waters of the Mackenzie Basin challenges the interpretation of apparent isotopic fractionation during weathering. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 35-45.	4.4	96
15	Zn isotopes in the suspended load of the Seine River, France: Isotopic variations and source determination. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4060-4076.	3.9	84
16	River dissolved and solid loads in the Lesser Antilles: New insight into basalt weathering processes. <i>Journal of Geochemical Exploration</i> , 2006, 88, 308-312.	3.2	74
17	Zn Isotope Fractionation during Sorption onto Kaolinite. <i>Environmental Science & Technology</i> , 2016, 50, 1844-1852.	10.0	70
18	MC-ICP-MS Isotope Measurements with Direct Injection Nebulisation (d-DIHEN): Optimisation and Application to Boron in Seawater and Carbonate Samples. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 75-88.	3.1	64

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19	Mass-dependent and -independent signature of Fe isotopes in magnetotactic bacteria. <i>Science</i> , 2016, 352, 705-708.	12.6	53
20	The geochemical filter of large river confluences. <i>Chemical Geology</i> , 2016, 441, 191-203.	3.3	53
21	Orography-driven chemical denudation in the Lesser Antilles: Evidence for a new feed-back mechanism stabilizing atmospheric CO ₂ . <i>Numerische Mathematik</i> , 2011, 311, 851-894.	1.4	49
22	Anthropophile elements in river sediments: Overview from the Seine River, France. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 4526-4546.	2.5	47
23	Iron isotopes in the Seine River (France): Natural versus anthropogenic sources. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 128, 128-143.	3.9	46
24	Direct separation of Zn from dilute aqueous solutions for isotope composition determination using multi-collector ICP-MS. <i>Chemical Geology</i> , 2009, 259, 120-130.	3.3	44
25	A fully automated direct injection nebulizer (d-DIHEN) for MC-ICP-MS isotope analysis: application to boron isotope ratio measurements. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1698-1707.	3.0	43
26	Legacy of contaminant N sources to the NO ₃ ⁻ signature in rivers: a combined isotopic (¹⁵ N-NO ₃ ⁻), Tj ETQq0 0.0 r gBT /Oyerlock 10	3.3	42
27	Zinc and copper behaviour at the soil-river interface: New insights by Zn and Cu isotopes in the organic-rich Rio Negro basin. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 178-197.	3.9	33
28	Earthquake-induced structural deformations enhance long-term solute fluxes from active volcanic systems. <i>Scientific Reports</i> , 2018, 8, 14809.	3.3	33
29	Sub-Permil Interlaboratory Consistency for Solution-Based Boron Isotope Analyses on Marine Carbonates. <i>Geostandards and Geoanalytical Research</i> , 2021, 45, 59-75.	3.1	31
30	Method for isotope ratio drift correction by internal amplifier signal synchronization in MC-ICPMS transient signals. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1607-1617.	3.0	30
31	Iron uptake and magnetite biomineralization in the magnetotactic bacterium <i>Magnetospirillum magneticum</i> strain AMB-1: An iron isotope study. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 225-243.	3.9	29
32	Zn isotope compositions of the thermal spring waters of La Soufrière volcano, Guadeloupe Island. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 67-82.	3.9	26
33	Fate of particulate copper and zinc isotopes at the Solimões-Negro river confluence, Amazon Basin, Brazil. <i>Chemical Geology</i> , 2018, 489, 1-15.	3.3	26
34	Boron isotope ratios of surface waters in Guadeloupe, Lesser Antilles. <i>Applied Geochemistry</i> , 2011, 26, S76-S79.	3.0	25
35	Rivers from Volcanic Island Arcs: The subduction weathering factory. <i>Applied Geochemistry</i> , 2011, 26, S350-S353.	3.0	21
36	Are boron isotopes a reliable tracer of anthropogenic inputs to rivers over time?. <i>Science of the Total Environment</i> , 2018, 626, 1057-1068.	8.0	20

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37	Determination of Bromine Stable Isotope Ratios from Saline Solutions by "Wet Plasma"-MC-ICPMS Including a Comparison between High- and Low-Resolution Modes, and Three Introduction Systems. <i>Analytical Chemistry</i> , 2016, 88, 3891-3898.	6.5	19
38	Boron isotopic fractionation during adsorption by calcite " Implication for the seawater pH proxy. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 240, 255-273.	3.9	19
39	Behaviors of Major and Trace Elements During Single Flood Event in the Seine River, France. <i>Procedia Earth and Planetary Science</i> , 2014, 10, 343-348.	0.6	14
40	Detection of nanoparticles by single-particle ICP-MS with complete transport efficiency through direct nebulization at few-microlitres-per-minute uptake rates. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 923-933.	3.7	14
41	Combination of nitrate (N, O) and boron isotopic ratios with microbiological indicators for the determination of nitrate sources in karstic groundwater. <i>Environmental Chemistry</i> , 2013, 10, 365.	1.5	12
42	Developing boron isotopes to elucidate shale weathering in the critical zone. <i>Chemical Geology</i> , 2021, 559, 119900.	3.3	12
43	$\hat{1}/4$ -dDIHEN: a new micro-flow liquid sample introduction system for direct injection nebulization in ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 1553-1563.	3.0	10
44	Transient signal isotope analysis using multicollecion of ion beams with Faraday cups equipped with 10^{12} and 10^{11} feedback resistors. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1582-1589.	3.0	9
45	High precision MC-ICP-MS measurements of $^{11}B/^{10}B$ ratios from ng amounts of boron in carbonate samples using microsublimation and direct injection ($\hat{1}/4$ -dDIHEN). <i>Journal of Analytical Atomic Spectrometry</i> , 2021, 36, 2116-2131.	3.0	7
46	Hydrothermal and magmatic contributions to surface waters in the Aso caldera, southern Japan: Implications for weathering processes in volcanic areas. <i>Chemical Geology</i> , 2022, 588, 120612.	3.3	7
47	Transient signal isotope analysis: validation of the method for isotope signal synchronization with the determination of amplifier first-order time constants. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1617-1622.	1.5	5
48	Combining Uranium, Boron, and Strontium Isotope Ratios ($^{234}U/^{238}U$, $\hat{1}^{11}B$, $^{87}Sr/^{86}Sr$) to Trace and Quantify Salinity Contributions to Rio Grande River in Southwestern United States. <i>Frontiers in Water</i> , 2021, 2, .	2.3	5
49	Mg isotope composition in beech forest ecosystems and variations induced by liming: insights from four experimental sites in Northern France. <i>Biogeochemistry</i> , 2021, 153, 115-134.	3.5	4
50	Technical note: Single-shell $\hat{1}^{11}B$ analysis of <i>Cibicides wuellerstorfi</i> using femtosecond laser ablation MC-ICPMS and secondary ion mass spectrometry. <i>Biogeosciences</i> , 2020, 17, 5365-5375.	3.3	4
51	Use of stable Mg isotope ratios in identifying the base cation sources of stream water in the boreal Krycklan catchment (Sweden). <i>Chemical Geology</i> , 2022, 588, 120651.	3.3	4
52	Bromine Isotope Variations in Magmatic and Hydrothermal Sodalite and Tugtupite and the Estimation of Br Isotope Fractionation between Melt and Sodalite. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 370.	2.0	3
53	The pH dependence of the isotopic composition of boron adsorbed on amorphous silica. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 1-20.	3.9	2
54	Experimental study of chemical evolution and isotope fractionation of Cl and Br in pore water expelled during strong clay compaction. <i>Applied Geochemistry</i> , 2022, 140, 105274.	3.0	2

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55	Trace metals dynamics under contrasted land uses: contribution of statistical, isotopic, and EXAFS approaches. Environmental Science and Pollution Research, 2018, 25, 23383-23403.	5.3	0