Pascale Louvat

List of Publications by Year
in descending order

55 papers	5,225 citations	172457 29 h-index	161849 54 g-index
55 all docs	55 docs citations	55 times ranked	4585 citing authors

#	Article	IF	Citations
1	Hydrothermal and magmatic contributions to surface waters in the Aso caldera, southern Japan: Implications for weathering processes in volcanic areas. Chemical Geology, 2022, 588, 120612.	3.3	7
2	Use of stable Mg isotope ratios in identifying the base cation sources of stream water in the boreal Krycklan catchment (Sweden). Chemical Geology, 2022, 588, 120651.	3.3	4
3	Experimental study of chemical evolution and isotope fractionation of Cl and Br in pore water expelled during strong clay compaction. Applied Geochemistry, 2022, 140, 105274.	3.0	2
4	Developing boron isotopes to elucidate shale weathering in the critical zone. Chemical Geology, 2021, 559, 119900.	3.3	12
5	Subâ€Permil Interlaboratory Consistency for Solutionâ€Based Boron Isotope Analyses on Marine Carbonates. Geostandards and Geoanalytical Research, 2021, 45, 59-75.	3.1	31
6	Detection of nanoparticles by single-particle ICP-MS with complete transport efficiency through direct nebulization at few-microlitres-per-minute uptake rates. Analytical and Bioanalytical Chemistry, 2021, 413, 923-933.	3.7	14
7	High precision MC-ICP-MS measurements of¹¹B/¹⁰B ratios from ng amounts of boron in carbonate samples using microsublimation and direct injection (Î¼-dDIHEN). Journal of Analytical Atomic Spectrometry, 2021, 36, 2116-2131.	3.0	7
8	Combining Uranium, Boron, and Strontium Isotope Ratios (234U/238U, Î´11B, 87Sr/86Sr) to Trace and Quantify Salinity Contributions to Rio Grande River in Southwestern United States. Frontiers in Water, 2021, 2, .	2.3	5
9	Mg isotope composition in beech forest ecosystems and variations induced by liming: insights from four experimental sites in Northern France. Biogeochemistry, 2021, 153, 115-134.	3.5	4
10	Bromine Isotope Variations in Magmatic and Hydrothermal Sodalite and Tugtupite and the Estimation of Br Isotope Fractionation between Melt and Sodalite. Minerals (Basel, Switzerland), 2021, 11, 370.	2.0	3
11	The pH dependence of the isotopic composition of boron adsorbed on amorphous silica. Geochimica Et Cosmochimica Acta, 2021, 308, 1-20.	3.9	2
12	Technical note: Single-shell <i>Î´</i>¹¹B analysis of <i>Cibicidoides wuellerstorfi</i> using femtosecond laser ablation MC-ICPMS and secondary ion mass spectrometry. Biogeosciences, 2020, 17, 5365-5375.	3.3	4
13	Î¼-dDIHEN: a new micro-flow liquid sample introduction system for direct injection nebulization in ICP-MS. Journal of Analytical Atomic Spectrometry, 2019, 34, 1553-1563.	3.0	10
14	Iron uptake and magnetite biomineralization in the magnetotactic bacterium Magnetospirillum magneticum strain AMB-1: An iron isotope study. Geochimica Et Cosmochimica Acta, 2018, 232, 225-243.	3.9	29
15	Are boron isotopes a reliable tracer of anthropogenic inputs to rivers over time?. Science of the Total Environment, 2018, 626, 1057-1068.	8.0	20
16	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
17	Earthquake-induced structural deformations enhance long-term solute fluxes from active volcanic systems. Scientific Reports, 2018, 8, 14809.	3.3	33
18	Fate of particulate copper and zinc isotopes at the SolimÃµes-Negro river confluence, Amazon Basin, Brazil. Chemical Geology, 2018, 489, 1-15.	3.3	26

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19	Boron isotopic fractionation during adsorption by calcite â€“ Implication for the seawater pH proxy. Geochimica Et Cosmochimica Acta, 2018, 240, 255-273.	3.9	19
20	Legacy of contaminant N sources to the NO3â^' signature in rivers: a combined isotopic (Î´15N-NO3â^',) Tj ETQq0 0 0 rgBT /Overlock 10	3.3	42
21	Zinc and copper behaviour at the soil-river interface: New insights by Zn and Cu isotopes in the organic-rich Rio Negro basin. Geochimica Et Cosmochimica Acta, 2017, 213, 178-197.	3.9	33
22	Mass-dependent and -independent signature of Fe isotopes in magnetotactic bacteria. Science, 2016, 352, 705-708.	12.6	53
23	The geochemical filter of large river confluences. Chemical Geology, 2016, 441, 191-203.	3.3	53
24	Zn Isotope Fractionation during Sorption onto Kaolinite. Environmental Science & Technology, 2016, 50, 1844-1852.	10.0	70
25	Determination of Bromine Stable Isotope Ratios from Saline Solutions by â€œWet Plasmaâ€•MC-ICPMS Including a Comparison between High- and Low-Resolution Modes, and Three Introduction Systems. Analytical Chemistry, 2016, 88, 3891-3898.	6.5	19
26	Transient signal isotope analysis: validation of the method for isotope signal synchronization with the determination of amplifier firstâ€•order time constants. Rapid Communications in Mass Spectrometry, 2015, 29, 1617-1622.	1.5	5
27	Riverine Li isotope fractionation in the Amazon River basin controlled by the weathering regimes. Geochimica Et Cosmochimica Acta, 2015, 164, 71-93.	3.9	192
28	Transient signal isotope analysis using multicollection of ion beams with Faraday cups equipped with 10¹² Î© and 10¹¹ Î© feedback resistors. Journal of Analytical Atomic Spectrometry, 2015, 30, 1582-1589.	3.0	9
29	Lithium isotopes in large rivers reveal the cannibalistic nature of modern continental weathering and erosion. Earth and Planetary Science Letters, 2014, 401, 359-372.	4.4	137
30	Iron isotopes in an Archean ocean analogue. Geochimica Et Cosmochimica Acta, 2014, 133, 443-462.	3.9	118
31	Zn isotope compositions of the thermal spring waters of La SoufriÃ¨re volcano, Guadeloupe Island. Geochimica Et Cosmochimica Acta, 2014, 127, 67-82.	3.9	26
32	Method for isotope ratio drift correction by internal amplifier signal synchronization in MC-ICPMS transient signals. Journal of Analytical Atomic Spectrometry, 2014, 29, 1607-1617.	3.0	30
33	A fully automated direct injection nebulizer (d-DIHEN) for MC-ICP-MS isotope analysis: application to boron isotope ratio measurements. Journal of Analytical Atomic Spectrometry, 2014, 29, 1698-1707.	3.0	43
34	Behaviors of Major and Trace Elements During Single Flood Event in the Seine River, France. Procedia Earth and Planetary Science, 2014, 10, 343-348.	0.6	14
35	Iron isotopes in the Seine River (France): Natural versus anthropogenic sources. Geochimica Et Cosmochimica Acta, 2014, 128, 128-143.	3.9	46
36	Anthropophile elements in river sediments: Overview from the <scp>S</scp>eine <scp>R</scp>iver, <scp>F</scp>rance. Geochemistry, Geophysics, Geosystems, 2014, 15, 4526-4546.	2.5	47

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37	Interlaboratory comparison of boron isotope analyses of boric acid, seawater and marine CaCO3 by MC-ICPMS and NTIMS. Chemical Geology, 2013, 358, 1-14.	3.3	112
38	Combination of nitrate (N, O) and boron isotopic ratios with microbiological indicators for the determination of nitrate sources in karstic groundwater. Environmental Chemistry, 2013, 10, 365.	1.5	12
39	Floodplains of large rivers: Weathering reactors or simple silos?. Chemical Geology, 2012, 332-333, 166-184.	3.3	96
40	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. Earth and Planetary Science Letters, 2012, 333-334, 35-45.	4.4	96
41	Boron isotope ratios of surface waters in Guadeloupe, Lesser Antilles. Applied Geochemistry, 2011, 26, S76-S79.	3.0	25
42	Rivers from Volcanic Island Arcs: The subduction weathering factory. Applied Geochemistry, 2011, 26, S350-S353.	3.0	21
43	MCâ€ICPâ€MS Isotope Measurements with Direct Injection Nebulisation (dâ€ÐIHEN): Optimisation and Application to Boron in Seawater and Carbonate Samples. Geostandards and Geoanalytical Research, 2011, 35, 75-88.	3.1	64
44	Orography-driven chemical denudation in the Lesser Antilles: Evidence for a new feed-back mechanism stabilizing atmospheric CO2. Numerische Mathematik, 2011, 311, 851-894.	1.4	49
45	Mg isotope constraints on soil pore-fluid chemistry: Evidence from Santa Cruz, California. Geochimica Et Cosmochimica Acta, 2010, 74, 3883-3896.	3.9	118
46	The fundamental role of island arc weathering in the oceanic Sr isotope budget. Earth and Planetary Science Letters, 2010, 292, 51-56.	4.4	161
47	Direct separation of Zn from dilute aqueous solutions for isotope composition determination using multi-collector ICP-MS. Chemical Geology, 2009, 259, 120-130.	3.3	44
48	Zn isotopes in the suspended load of the Seine River, France: Isotopic variations and source determination. Geochimica Et Cosmochimica Acta, 2009, 73, 4060-4076.	3.9	84
49	Zinc Isotopic Fractionation: Why Organic Matters. Environmental Science & Technology, 2009, 43, 5747-5754.	10.0	142
50	Accuracy of stable Mg and Ca isotope data obtained by MC-ICP-MS using the standard addition method. Chemical Geology, 2008, 257, 65-75.	3.3	120
51	Zinc Isotopes in the Seine River Waters, France: A Probe of Anthropogenic Contamination. Environmental Science & Technology, 2008, 42, 6494-6501.	10.0	129
52	River dissolved and solid loads in the Lesser Antilles: New insight into basalt weathering processes. Journal of Geochemical Exploration, 2006, 88, 308-312.	3.2	74
53	Global silicate weathering and CO2 consumption rates deduced from the chemistry of large rivers. Chemical Geology, 1999, 159, 3-30.	3.3	2,300
54	Riverine erosion rates on Sao Miguel volcanic island, Azores archipelago. Chemical Geology, 1998, 148, 177-200.	3.3	132

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55	Present denudation rates on the island of RÃ©union determined by river geochemistry: Basalt weathering and mass budget between chemical and mechanical erosions. Geochimica Et Cosmochimica Acta, 1997, 61, 3645-3669.	3.9	277