Julien Bouchez

List of Publications by Year
in descending order

70	3,606	117619	133244
papers	citations	34 h-index	59 g-index

82	82	82	3486
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grain size control of river suspended sediment geochemistry: Clues from Amazon River depth profiles. Geochemistry, Geophysics, Geosystems, 2011, 12, .	2.5	243
2	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
3	Erosion of organic carbon in the Arctic as a geological carbon dioxide sink. Nature, 2015, 524, 84-87.	27.8	141
4	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
5	A Rouse-based method to integrate the chemical composition of river sediments: Application to the Ganga basin. Journal of Geophysical Research, 2011, 116, .	3.3	132
6	Oxidation of petrogenic organic carbon in the Amazon floodplain as a source of atmospheric CO2. Geology, 2010, 38, 255-258.	4.4	130
7	OZCAR: The French Network of Critical Zone Observatories. Vadose Zone Journal, 2018, 17, 1-24.	2.2	126
8	Modeling novel stable isotope ratios in the weathering zone. Numerische Mathematik, 2013, 313, 267-308.	1.4	125
9	Source, transport and fluxes of Amazon River particulate organic carbon: Insights from river sediment depth-profiles. Geochimica Et Cosmochimica Acta, 2014, 133, 280-298.	3.9	122
10	Turbulent mixing in the Amazon River: The isotopic memory of confluences. Earth and Planetary Science Letters, 2010, 290, 37-43.	4.4	118
11	The acid and alkalinity budgets of weathering in the Andesâ€“Amazon system: Insights into the erosional control of global biogeochemical cycles. Earth and Planetary Science Letters, 2016, 450, 381-391.	4.4	103
12	Floodplains of large rivers: Weathering reactors or simple silos?. Chemical Geology, 2012, 332-333, 166-184.	3.3	96
13	Earth surface erosion and weathering from the 10Be (meteoric)/9Be ratio. Earth and Planetary Science Letters, 2012, 351-352, 295-305.	4.4	88
14	Stable runoff and weathering fluxes into the oceans over Quaternary climate cycles. Nature Geoscience, 2015, 8, 538-542.	12.9	87
15	Si stable isotope fractionation during adsorption and the competition between kinetic and equilibrium isotope fractionation: Implications for weathering systems. Chemical Geology, 2014, 380, 161-171.	3.3	78
16	How important is it to integrate riverine suspended sediment chemical composition with depth? Clues from Amazon River depth-profiles. Geochimica Et Cosmochimica Acta, 2011, 75, 6955-6970.	3.9	73
17	The dependence of meteoric 10Be concentrations on particle size in Amazon River bed sediment and the extraction of reactive 10Be/9Be ratios. Chemical Geology, 2012, 318-319, 126-138.	3.3	71
18	Radiogenic and â€œstableâ€•strontium isotopes in provenance studies: A review and first results on archaeological wood from shipwrecks. Journal of Archaeological Science, 2017, 86, 24-49.	2.4	71

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19	Quantifying nutrient uptake as driver of rock weathering in forest ecosystems by magnesium stable isotopes. Biogeosciences, 2017, 14, 3111-3128.	3.3	71
20	The effect of Al on Si isotope fractionation investigated by silica precipitation experiments. Chemical Geology, 2015, 397, 94-105.	3.3	70
21	Tracing weathering regimes using the lithium isotope composition of detrital sediments. Geology, 2017, 45, 411-414.	4.4	70
22	Slow advance of the weathering front during deep, supply-limited saprolite formation in the tropical Highlands of Sri Lanka. Geochimica Et Cosmochimica Acta, 2013, 118, 202-230.	3.9	67
23	MCâ€ICPâ€MS Isotope Measurements with Direct Injection Nebulisation (dâ€DIHEN): Optimisation and Application to Boron in Seawater and Carbonate Samples. Geostandards and Geoanalytical Research, 2011, 35, 75-88.	3.1	64
24	Prediction of depthâ€integrated fluxes of suspended sediment in the Amazon River: particle aggregation as a complicating factor. Hydrological Processes, 2011, 25, 778-794.	2.6	58
25	River fluxes to the sea from the oceanÊ¼s 10Be/9Be ratio. Earth and Planetary Science Letters, 2014, 387, 34-43.	4.4	56
26	The geochemical filter of large river confluences. Chemical Geology, 2016, 441, 191-203.	3.3	53
27	Determination of Total Organic Carbon Content and Î´¹³C in Carbonateâ€Rich Detrital Sediments. Geostandards and Geoanalytical Research, 2007, 31, 199-207.	1.9	52
28	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
29	Mineralogical transformations set slow weathering rates in low-porosity metamorphic bedrock on mountain slopes in a tropical climate. Chemical Geology, 2015, 411, 283-298.	3.3	44
30	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
31	Late Neoproterozoic seawater oxygenation by siliceous sponges. Nature Communications, 2017, 8, 621.	12.8	43
32	Nutrient cycling in a tropical montane rainforest under a supply-limited weathering regime traced by elemental mass balances and Mg stable isotopes. Chemical Geology, 2018, 497, 74-87.	3.3	42
33	A test of the cosmogenic¹⁰Be(meteoric)/⁹Be proxy for simultaneously determining basin-wide erosion rates, denudation rates, and the degree of weathering in the Amazon basin. Journal of Geophysical Research F: Earth Surface, 2015, 120, 2498-2528.	2.8	41
34	Precipitation of salts in freezing seawater and ozone depletion events: a status report. Atmospheric Chemistry and Physics, 2008, 8, 7317-7324.	4.9	38
35	Seasonal riverine barium isotopic variation in the middle Yellow River: Sources and fractionation. Earth and Planetary Science Letters, 2020, 531, 115990.	4.4	38
36	The Influence of Hydrothermal Activity on the Li Isotopic Signature of Rivers Draining Volcanic Areas. Procedia Earth and Planetary Science, 2014, 10, 223-230.	0.6	35

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37	Riverine dissolved lithium isotopic signatures in lowâ€relief central Africa and their link to weathering regimes. Geophysical Research Letters, 2016, 43, 4391-4399.	4.0	35
38	River Mixing in the Amazon as a Driver of Concentrationâ€Discharge Relationships. Water Resources Research, 2017, 53, 8660-8685.	4.2	33
39	The potamochemical symphony: new progress in the high-frequency acquisition of stream chemical data. Hydrology and Earth System Sciences, 2017, 21, 6153-6165.	4.9	30
40	Experimental constraints on Li isotope fractionation during the interaction between kaolinite and seawater. Geochimica Et Cosmochimica Acta, 2021, 292, 333-347.	3.9	30
41	Microbial Colonization of Bare Rocks: Laboratory Biofilm Enhances Mineral Weathering. Procedia Earth and Planetary Science, 2014, 10, 123-129.	0.6	29
42	The response of Li and Mg isotopes to rain events in a highly-weathered catchment. Chemical Geology, 2019, 519, 68-82.	3.3	29
43	Weathering Intensity in Lowland River Basins: From the Andes to the Amazon Mouth. Procedia Earth and Planetary Science, 2014, 10, 280-286.	0.6	27
44	Ge and Si isotope signatures in rivers: A quantitative multi-proxy approach. Earth and Planetary Science Letters, 2018, 503, 194-215.	4.4	27
45	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
46	How accurate are rivers as gauges of chemical denudation of the Earth surface?. Geology, 2014, 42, 171-174.	4.4	25
47	The evolution of lithium isotope signatures in fluids draining actively weathering hillslopes. Earth and Planetary Science Letters, 2021, 567, 116988.	4.4	24
48	Barium isotope cosmochemistry and geochemistry. Science Bulletin, 2018, 63, 385-394.	9.0	19
49	Barium stable isotopes as a fingerprint of biological cycling in the Amazon River basin. Biogeosciences, 2020, 17, 5989-6015.	3.3	17
50	Otolith Sr/Ca ratio complements Sr isotopes to reveal fish migration in large basins with heterogeneous geochemical landscapes. Environmental Biology of Fishes, 2021, 104, 277-292.	1.0	15
51	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
52	Chemical weathering and CO₂ consumption rate in a multilayeredâ€aquifer dominated watershed under intensive farming: The Orgeval Critical Zone Observatory, France. Hydrological Processes, 2019, 33, 195-213.	2.6	14
53	Automated Analyte Separation by Ion Chromatography Using a Cobot Applied to Geological Reference Materials for Li Isotope Composition. Geostandards and Geoanalytical Research, 2020, 44, 57-67.	3.1	14
54	¹⁰Be/⁹Be Ratios Reveal Marine Authigenic Clay Formation. Geophysical Research Letters, 2020, 47, e2019GL086061.	4.0	14

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55	Rock weathering and nutrient cycling along an erodosequence. Numerische Mathematik, 2021, 321, 1111-1163.	1.4	14
56	Strontium isotopes (<scp>⁸⁷Sr</scp>/<scp>⁸⁶Sr</scp>) reveal the life history of freshwater migratory fishes in the La Plata Basin. River Research and Applications, 2020, 36, 1985-2000.	1.7	13
57	A Review on the Elemental and Isotopic Geochemistry of Gallium. Global Biogeochemical Cycles, 2021, 35, e2021GB007033.	4.9	12
58	The influence of black shale weathering on riverine barium isotopes. Chemical Geology, 2022, 594, 120741.	3.3	12
59	The role of vegetation in setting strontium stable isotope ratios in the Critical Zone. Numerische Mathematik, 2021, 321, 1246-1283.	1.4	10
60	Quantitative evaluation of human and climate forcing on erosion in the alpine Critical Zone over the last 2000 years. Quaternary Science Reviews, 2021, 268, 107127.	3.0	9
61	Testing the Steady State Assumption for the Earth's Surface Denudation Using Li Isotopes in the Amazon Basin. Procedia Earth and Planetary Science, 2015, 13, 162-168.	0.6	7
62	Tropical Weathering History Recorded in the Silicon Isotopes of Lateritic Weathering Profiles. Geophysical Research Letters, 2021, 48, e2021GL092957.	4.0	7
63	Deciphering the signatures of weathering and erosion processes and the effects of river management on Li isotopes in the subtropical Pearl River basin. Geochimica Et Cosmochimica Acta, 2021, 313, 340-358.	3.9	7
64	Li and Si isotopes reveal authigenic clay formation in a palaeo-delta. Earth and Planetary Science Letters, 2022, 578, 117339.	4.4	6
65	Resiliency of Silica Export Signatures When Low Order Streams Are Subject to Storm Events. Journal of Geophysical Research G: Biogeosciences, 2022, 127, .	3.0	6
66	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
67	Turbulent mixing in the Amazon River: The isotopic memory of confluences. Earth and Planetary Science Letters, 290 (2010), pp. 37â€“43. Earth and Planetary Science Letters, 2011, 311, 448-450.	4.4	3
68	Landslides as geological hotspots of CO₂ emission: clues from the instrumented SÃ©chilienne landslide, western European Alps. Earth Surface Dynamics, 2021, 9, 487-504.	2.4	3
69	Contrasted Chemical Weathering Rates in Cratonic Basins: The OgoouÃ© and Mbei Rivers, Western Central Africa. Frontiers in Water, 2021, 2, .	2.3	1
70	Reply to the Comment made by C. Gualtieri on â€œTurbulent mixing in the Amazon River: The isotopic memory of confluencesâ€, by J. Bouchez, E. Lajeunesse, J. Gaillardet, C. France-Lanord, P. Dutra-Maia and L. Maurice. Earth and Planetary Science Letters, 2011, 311, 451-452.	4.4	0