Steven Bouillon

List of Publications by Year in descending order

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Version: 2024-02-01

120	11,816	45	105
papers	citations	h-index	g-index
138	138	138	10758 citing authors
all docs	docs citations	times ranked	

#	Article	IF	CITATIONS
1	Under pressure: Rapid lavaka erosion and floodplain sedimentation in central Madagascar. Science of the Total Environment, 2022, 806, 150483.	3.9	20
2	Carbon dynamics and CO2 and CH4 exchange in the mangrove dominated Guayas river delta, Ecuador. Estuarine, Coastal and Shelf Science, 2022, 267, 107766.	0.9	7
3	Mangrove sediment organic carbon storage and sources in relation to forest age and position along a deltaic salinity gradient. Biogeosciences, 2022, 19, 1571-1585.	1.3	12
4	Greenhouse gas emissions from African lakes are no longer a blind spot. Science Advances, 2022, 8, .	4.7	25
5	Assessing $\hat{\Gamma}'15N$ values in the carbonate-bound organic matrix and periostracum of bivalve shells as environmental archives. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 564, 110108.	1.0	11
6	Impact of selective degradation on molecular isotope compositions in oxic and anoxic marine sediments. Organic Geochemistry, 2021, 153, 104192.	0.9	6
7	Rapid soil organic carbon decomposition in river systems: effects of the aquatic microbial community and hydrodynamical disturbance. Biogeosciences, 2021, 18, 1511-1523.	1.3	3
8	Limnological changes in Lake Victoria since the midâ€20 th century. Freshwater Biology, 2021, 66, 1630-1647.	1.2	6
9	The renaissance of Odum's outwelling hypothesis in 'Blue Carbon' science. Estuarine, Coastal and Shelf Science, 2021, 255, 107361.	0.9	107
10	Understanding the linkage between regional climatology and cave geochemical parameters to calibrate speleothem proxies in Madagascar. Science of the Total Environment, 2021, 784, 147181.	3.9	10
11	Nitrate-dependent anaerobic methane oxidation and chemolithotrophic denitrification in a temperate eutrophic lake. FEMS Microbiology Ecology, 2021, 97, .	1.3	9
12	Freshwater bivalve shells as hydrologic archives in the Congo Basin. Geochimica Et Cosmochimica Acta, 2021, 308, 101-117.	1.6	2
13	Editorial: Structure, Functioning and Conservation of Coastal Vegetated Wetlands. Frontiers in Ecology and Evolution, 2020, 8, .	1.1	3
14	Dissolved organic matter composition and reactivity in Lake Victoria, the world's largest tropical lake. Biogeochemistry, 2020, 150, 61-83.	1.7	10
15	Diversity and ecology of phytoplankton in Lake Edward (East Africa): Present status and long-term changes. Journal of Great Lakes Research, 2020, 46, 741-751.	0.8	12
16	East Siberian Arctic inland waters emit mostly contemporary carbon. Nature Communications, 2020, 11, 1627.	5.8	43
17	Benthic carbon fixation and cycling in diffuse hydrothermal and background sediments in the Bransfield Strait, Antarctica. Biogeosciences, 2020, 17, 1-12.	1.3	6
18	Methane paradox in tropical lakes? Sedimentary fluxes rather than pelagic production in oxic conditions sustain methanotrophy and emissions to the atmosphere. Biogeosciences, 2020, 17, 5209-5221.	1.3	19

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19	Variations in dissolved greenhouse gases (CO ₂ ,) Tj ETQq1 1 0.784314 River network overwhelmingly driven by fluvial-wetland connectivity. Biogeosciences, 2019, 16,	rgBT /Ove	erlock 10 Tf 93
20	3801-3834. Terrestrial contributions to Afrotropical aquatic food webs: The Congo River case. Ecology and Evolution, 2019, 9, 10746-10757.	0.8	14
21	Diffusive emissions of methane and nitrous oxide from a cascade of tropical hydropower reservoirs in Kenya. Lakes and Reservoirs: Research and Management, 2019, 24, 127-135.	0.6	7
22	Carbon processing by the benthic ecosystem and benthic C fixation in methane-rich sediments on the South Georgia margin. Antarctic Science, 2019, 31, 59-68.	0.5	O
23	Relationship between river water chemistry and shell chemistry of two tropical African freshwater bivalve species. Chemical Geology, 2019, 526, 130-141.	1.4	19
24	Seasonal and inter-annual variations in carbon fluxes in a tropical river system (Tana River, Kenya). Aquatic Sciences, 2018, 80, 1.	0.6	6
25	Role of a cascade of reservoirs in regulating downstream transport of sediment, carbon and nutrients: Case study of tropical arid climate Tana River Basin. Lakes and Reservoirs: Research and Management, 2018, 23, 43-55.	0.6	4
26	Variation of the isotopic composition of dissolved organic carbon during the runoff cycle in the Amazon River and the floodplains. Comptes Rendus - Geoscience, 2018, 350, 65-75.	0.4	12
27	Effects of agricultural land use on fluvial carbon dioxide, methane and nitrous oxide concentrations in a large European river, the Meuse (Belgium). Science of the Total Environment, 2018, 610-611, 342-355.	3.9	138
28	A comprehensive biogeochemical record and annual flux estimates for the Sabaki River (Kenya). Biogeosciences, 2018, 15, 1683-1700.	1.3	2
29	Carbon dynamics and CO ₂ and CH ₄ outgassing in the Mekong delta. Biogeosciences, 2018, 15, 1093-1114.	1.3	53
30	Trophic structure of an African savanna river and organic matter inputs by large terrestrial herbivores: A stable isotope approach. Freshwater Biology, 2018, 63, 1365-1380.	1.2	30
31	Intra―and interspecific niche variation as reconstructed from stable isotopes in two ecologically different Ethiopian Rift Valley lakes. Functional Ecology, 2017, 31, 1482-1492.	1.7	11
32	Calibration of hydroclimate proxies in freshwater bivalve shells from Central and West Africa. Geochimica Et Cosmochimica Acta, 2017, 208, 41-62.	1.6	32
33	Shifts in the carbon dynamics in a tropical lowland river system (Tana River, Kenya) during flooded and non-flooded conditions. Biogeochemistry, 2017, 132, 141-163.	1.7	19
34	High-resolution nitrogen stable isotope sclerochronology of bivalve shell carbonate-bound organics. Geochimica Et Cosmochimica Acta, 2017, 200, 55-66.	1.6	38
35	Effects of human land use on the terrestrial and aquatic sources of fluvial organic matter in a temperate river basin (The Meuse River, Belgium). Biogeochemistry, 2017, 136, 191-211.	1.7	130
36	Emission and oxidation of methane in a meromictic, eutrophic and temperate lake (Dendre, Belgium). Chemosphere, 2017, 168, 756-764.	4.2	34

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37	Phytoplankton dynamics in the Congo River. Freshwater Biology, 2017, 62, 87-101.	1.2	49
38	Shift in the chemical composition of dissolved organic matter in the Congo River network. Biogeosciences, 2016, 13, 5405-5420.	1.3	85
39	Along-stream transport and transformation of dissolved organic matter in a large tropical river. Biogeosciences, 2016, 13, 2727-2741.	1.3	66
40	Dissolved organic carbon lability and stable isotope shifts during microbial decomposition in a tropical river system. Biogeosciences, 2016, 13, 517-525.	1.3	13
41	Patterns of carbon processing at the seafloor: the role of faunal and microbial communities in moderating carbon flows. Biogeosciences, 2016, 13, 4343-4357.	1.3	38
42	Trophic interactions in an ant nest microcosm: a combined experimental and stable isotope (δ ¹³ C/δ ¹⁵ N) approach. Oikos, 2016, 125, 1182-1192.	1.2	34
43	Chemoautotrophy and anoxygenic photosynthesis within the water column of a large meromictic tropical lake (Lake Kivu, East Africa). Limnology and Oceanography, 2016, 61, 1424-1437.	1.6	26
44	Sediment deposition patterns in a tropical floodplain, Tana River, Kenya. Catena, 2016, 143, 57-69.	2.2	25
45	The response of phytoplankton and zooplankton to river damming in three cascading reservoirs of the Tana River, Kenya. Lakes and Reservoirs: Research and Management, 2016, 21, 114-132.	0.6	14
46	Deposition and fate of organic carbon in floodplains along a tropical semiarid lowland river (Tana) Tj ETQq0 0 0 rg	BŢ./Overlo	ck 10 Tf 50
47	The impacts of hydropower development on rural livelihood sustenance. International Journal of Water Resources Development, 2016, 32, 267-285.	1.2	25
48	Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin. Scientific Reports, 2015, 5, 13803.	1.6	80
49	Divergent biophysical controls of aquatic CO2 and CH4 in the World's two largest rivers. Scientific Reports, 2015, 5, 15614.	1.6	85
50	Sediment yield of the lower Tana River, Kenya, is insensitive to dam construction: sediment mobilization processes in a semiâ€arid tropical river system. Earth Surface Processes and Landforms, 2015, 40, 1827-1838.	1.2	23
51	River geochemistry, chemical weathering, and atmospheric <scp>C</scp> O ₂ consumption rates in the <scp>V</scp> irunga <scp>V</scp> olcanic <scp>P</scp> rovince (<scp>E</scp> ast) Tj ETQq1 1 0.784	3 1.0 rgBT /	@⊌erlock 10
52	Technical Note: Large overestimation of & amp;lt;i>CO ₂ calculated from pH and alkalinity in acidic, organic-rich freshwaters. Biogeosciences, 2015, 12, 67-78.	1.3	244
53	Methanotrophy within the water column of a large meromictic tropical lake (Lake Kivu, East Africa). Biogeosciences, 2015, 12, 2077-2088.	1.3	38
54	Dynamics of greenhouse gases (CO ₂ ,) Tj ETQq0 0 0 rgBT /Overlock 10 Zambezi River and major tributaries, and their importance in the riverine carbon budget. Biogeosciences, 2015, 12, 2431-2453.	Tf 50 72 1 1.3	Td (CH& 122

ARTICLE		IF	CITATIONS
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73	The effects of weathering variability and anthropogenic pressures upon silicon cycling in an intertropical watershed (Tana River, Kenya). Chemical Geology, 2012, 308-309, 18-25.	1.4	42
74	Distribution and origin of suspended matter and organic carbon pools in the Tana River Basin, Kenya. Biogeosciences, 2012, 9, 2905-2920.	1.3	61
75	Organic matter sources, fluxes and greenhouse gas exchange in the Oubangui River (Congo River) Tj ETQq $1\ 1\ 0.7$	⁷⁸⁴³¹⁴ rg	BT ₈ Overlock
76	Variability of Carbon Dioxide and Methane in the Epilimnion of Lake Kivu., 2012,, 47-66.		8
77	A blueprint for blue carbon: toward an improved understanding of the role of vegetated coastal habitats in sequestering CO ₂ . Frontiers in Ecology and the Environment, 2011, 9, 552-560.	1.9	2,354
78	Storage beneath mangroves. Nature Geoscience, 2011, 4, 282-283.	5.4	62
79	Use of Stable Isotopes to Understand Food Webs and Ecosystem Functioning in Estuaries. , 2011, , 143-173.		79
80	Variation in physiological indicators in Bathymodiolus azoricus (Bivalvia: Mytilidae) at the Menez Gwen Mid-Atlantic Ridge deep-sea hydrothermal vent site within a year. Marine Environmental Research, 2010, 70, 264-271.	1.1	22
81	The role of biogenic structures on the biogeochemical functioning of mangrove constructed wetlands sediments – A mesocosm approach. Marine Pollution Bulletin, 2010, 60, 560-572.	2.3	29
82	Stable isotope analysis of dissolved organic carbon in soil solutions using a catalytic combustion total organic carbon analyzerâ€isotope ratio mass spectrometer with a cryofocusing interface. Rapid Communications in Mass Spectrometry, 2010, 24, 365-374.	0.7	18
83	Mixotrophy in the deep sea: a dual endosymbiotic hydrothermal mytilid assimilates dissolved and particulate organic matter. Marine Ecology - Progress Series, 2010, 405, 187-201.	0.9	43
84	Performance evaluation of nitrogen isotope ratio determination in marine and lacustrine sediments: An inter-laboratory comparison. Organic Geochemistry, 2010, 41, 3-12.	0.9	28
85	Preface to the Special Issue on "Stable Isotopes in Biogeosciences Ill― Organic Geochemistry, 2010, 41, 1-2.	0.9	0
86	Tracing carbon assimilation in endosymbiotic deep-sea hydrothermal vent Mytilid fatty acids by & amp;lt;sup>13C-fingerprinting. Biogeosciences, 2010, 7, 2591-2600.	1.3	8
87	Distribution, origin and cycling of carbon in the Tana River (Kenya): a dry season basin-scale survey from headwaters to the delta. Biogeosciences, 2009, 6, 2475-2493.	1.3	80
88	Carbon sources supporting a diverse fish community in a tropical coastal ecosystem (Gazi Bay, Kenya). Estuarine, Coastal and Shelf Science, 2009, 83, 333-341.	0.9	48
89	Population structure, density and food sources of Terebralia palustris (Potamididae: Gastropoda) in a low intertidal Avicennia marina mangrove stand (Inhaca Island, Mozambique). Estuarine, Coastal and Shelf Science, 2009, 84, 318-325.	0.9	18
90	Hydrocarbons and oxidized organic compounds in hydrothermal fluids from Rainbow and Lost City ultramafic-hosted vents. Chemical Geology, 2009, 258, 299-314.	1.4	194

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91	Carbon Exchange Among Tropical Coastal Ecosystems. , 2009, , 45-70.		42
92	Nitrogen and carbon isotope values of individual amino acids: a tool to study foraging ecology of penguins in the Southern Ocean. Marine Ecology - Progress Series, 2009, 391, 293-306.	0.9	126
93	Mangrove production and carbon sinks: A revision of global budget estimates. Global Biogeochemical Cycles, 2008, 22, .	1.9	812
94	Organic carbon dynamics in mangrove ecosystems: A review. Aquatic Botany, 2008, 89, 201-219.	0.8	966
95	The habitat function of mangroves for terrestrial and marine fauna: A review. Aquatic Botany, 2008, 89, 155-185.	0.8	1,037
96	Carbon biogeochemistry of the Betsiboka estuary (north-western Madagascar). Organic Geochemistry, 2008, 39, 1649-1658.	0.9	57
97	Preface to the special issue on "Stable Isotopes in Biogeosciences Il― Organic Geochemistry, 2008, 39, 1647-1648.	0.9	2
98	Organic matter exchange and cycling in mangrove ecosystems: Recent insights from stable isotope studies. Journal of Sea Research, 2008, 59, 44-58.	0.6	343
99	Influence of CH ₄ and H ₂ 5 availability on symbiont distribution, carbon assimilation and transfer in the dual symbiotic vent mussel <l>Bathymodiolus azoricus<:/i>. Biogeosciences. 2008. 5. 1681-1691.</l>	1.3	51
100	Kleptoplasts mediate nitrogen acquisition in the sea slug Elysia viridis. Aquatic Biology, 2008, 4, 15-21.	0.5	28
101	Emission of CO2 and CH4 to the atmosphere by sediments and open waters in two Tanzanian mangrove forests. Marine Ecology - Progress Series, 2008, 370, 53-67.	0.9	109
102	Biogeochemistry of the Tana estuary and delta (northern Kenya). Limnology and Oceanography, 2007, 52, 46-59.	1.6	90
103	Dynamics of organic and inorganic carbon across contiguous mangrove and seagrass systems (Gazi) Tj ETQq $1\ 1$	0.784314 3.3	rgBT /Overlo
104	Importance of intertidal sediment processes and porewater exchange on the water column biogeochemistry in a pristine mangrove creek (Ras Dege, Tanzania). Biogeosciences, 2007, 4, 311-322.	1.3	151
105	Determination of 180 of water and 13C of dissolved inorganic carbon using a simple modification of an elemental analyser-isotope ratio mass spectrometer: an evaluation. Rapid Communications in Mass Spectrometry, 2007, 21, 1475-1478.	0.7	70
106	Stable carbon isotopic composition of Mytilus edulis shells: relation to metabolism, salinity, Î 13CDIC and phytoplankton. Organic Geochemistry, 2006, 37, 1371-1382.	0.9	161
107	Title is missing!. Organic Geochemistry, 2006, 37, 1197-1199.	0.9	8
108	Bacterial carbon sources in coastal sediments: a cross-system analysis based on stable isotope data of biomarkers. Biogeosciences, 2006, 3, 175-185.	1.3	121

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109	A new automated setup for stable isotope analysis of dissolved organic carbon. Limnology and Oceanography: Methods, 2006, 4, 216-226.	1.0	40
110	Dual stable isotope abundances unravel trophic position of estuarine nematodes. Journal of the Marine Biological Association of the United Kingdom, 2005, 85, 1401-1407.	0.4	98
111	Comparison between δ13C of α-cellulose and bulk wood in the mangrove tree Rhizophora mucronata: Implications for dendrochemistry. Chemical Geology, 2005, 219, 275-282.	1.4	56
112	Carbon sources supporting benthic mineralization in mangrove and adjacent seagrass sediments (Gazi) Tj ETQq0	0.0 rgBT 1.3	Oyerlock 10
113	Variability in the origin of carbon substrates for bacterial communities in mangrove sediments. FEMS Microbiology Ecology, 2004, 49, 171-179.	1.3	57
114	Selectivity of subtidal benthic invertebrate communities for local microalgal production in an estuarine mangrove ecosystem during the post-monsoon period. Journal of Sea Research, 2004, 51, 133-144.	0.6	42
115	Sources of organic carbon in mangrove sediments: variability and possible ecological implications. Hydrobiologia, 2003, 495, 33-39.	1.0	228
116	Evalution of sequential extractions on dry and wet sediments. Analytical and Bioanalytical Chemistry, 2003, 376, 890-901.	1.9	63
117	Inorganic and organic carbon biogeochemistry in the Gautami Godavari estuary (Andhra Pradesh,) Tj ETQq1 1 0.7 Cycles, 2003, 17, n/a-n/a.	84314 rg 1.9	gBT /Overlock 144
118	Primary producers sustaining macro-invertebrate communities in intertidal mangrove forests. Oecologia, 2002, 130, 441-448.	0.9	233
119	Carbon and Nitrogen Stable Isotope Ratios of Subtidal Benthic Invertebrates in an Estuarine Mangrove Ecosystem (Andhra Pradesh, India). Estuarine, Coastal and Shelf Science, 2002, 54, 901-913.	0.9	107
120	Current Methods to Evaluate Net Primary Production and Carbon Budgets in Mangrove Forests. Soil Science Society of America Book Series, 0, , 243-288.	0.3	13