GwenaÃ«l Abril

List of Publications by Year
in descending order

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96 papers	6,580 citations	50170 46 h-index	74018 75 g-index
97 all docs	97 docs citations	97 times ranked	6538 citing authors

#	Article	IF	Citations
1	Carbon Dioxide Emission from European Estuaries. , 1998, 282, 434-436.		480
2	Carbon dioxide and methane emissions and the carbon budget of a 10-year old tropical reservoir (Petit) Tj ETQq0 0 0 rgBT /Overlock 10	1.9	379
3	Behaviour of Organic Carbon in Nine Contrasting European Estuaries. Estuarine, Coastal and Shelf Science, 2002, 54, 241-262.	0.9	321
4	Amazon River carbon dioxide outgassing fuelled by wetlands. Nature, 2014, 505, 395-398.	13.7	293
5	The European carbon balance. Part 3: forests. Global Change Biology, 2010, 16, 1429-1450.	4.2	247
6	Technical Note: Large overestimation of <i>p</i>CO₂ calculated from pH and alkalinity in acidic, organic-rich freshwaters. Biogeosciences, 2015, 12, 67-78.	1.3	244
7	Carbon dioxide in European coastal waters. Estuarine, Coastal and Shelf Science, 2006, 70, 375-387.	0.9	239
8	Gas transfer velocities of CO2 and CH4 in a tropical reservoir and its river downstream. Journal of Marine Systems, 2007, 66, 161-172.	0.9	204
9	Methane and carbon dioxide emissions from tropical reservoirs: Significance of downstream rivers. Geophysical Research Letters, 2006, 33, .	1.5	191
10	The European carbon balance. Part 4: integration of carbon and other traceâ€gas fluxes. Global Change Biology, 2010, 16, 1451-1469.	4.2	157
11	Inorganic and organic carbon biogeochemistry in the Gautami Godavari estuary (Andhra Pradesh,) Tj ETQq1 1 0.784314 rgBT /Overlo Cycles, 2003, 17, n/a-n/a.	1.9	144
12	Oxic/anoxic oscillations and organic carbon mineralization in an estuarine maximum turbidity zone (The Gironde, France). Limnology and Oceanography, 1999, 44, 1304-1315.	1.6	141
13	Particulate organic carbon in the estuarine turbidity maxima of the Gironde, Loire and Seine estuaries: origin and lability. Hydrobiologia, 2007, 588, 245-259.	1.0	122
14	Dynamics of organic and inorganic carbon across contiguous mangrove and seagrass systems (Gazi) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.3	113
15	Disentangling the origins of branched tetraether lipids and crenarchaeol in the lower Amazon River: Implications for GDGTâ€based proxies. Limnology and Oceanography, 2013, 58, 343-353.	1.6	109
16	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
17	Significance of pelagic aerobic methane oxidation in the methane and carbon budget of a tropical reservoir. Journal of Geophysical Research, 2007, 112, .	3.3	106
18	Seasonal Variability of Carbon Dioxide in the Rivers and Lagoons of Ivory Coast (West Africa). Estuaries and Coasts, 2009, 32, 246-260.	1.0	99

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19	New insights into the size distribution of fluorescent dissolved organic matter in estuarine waters. Organic Geochemistry, 2010, 41, 595-610.	0.9	96
20	Tracing soil organic carbon in the lower Amazon River and its tributaries using GDGT distributions and bulk organic matter properties. Geochimica Et Cosmochimica Acta, 2012, 90, 163-180.	1.6	90
21	Origin and composition of particulate organic matter in a macrotidal turbid estuary: The Gironde Estuary, France. Estuarine, Coastal and Shelf Science, 2012, 108, 16-28.	0.9	86
22	Divergent biophysical controls of aquatic CO2 and CH4 in the Worldâ€™s two largest rivers. Scientific Reports, 2015, 5, 15614.	1.6	85
23	Seasonal variability of methane in the rivers and lagoons of Ivory Coast (West Africa). Biogeochemistry, 2010, 100, 21-37.	1.7	81
24	Biogeochemical modelling of anaerobic vs. aerobic methane oxidation in a meromictic crater lake (Lake Pavin, France). Applied Geochemistry, 2011, 26, 1919-1932.	1.4	75
25	Enhanced methane oxidation in an estuarine turbidity maximum. Limnology and Oceanography, 2007, 52, 470-475.	1.6	74
26	A strong CO₂ sink enhanced by eutrophication in a tropical coastal embayment (Guanabara Bay, Rio de Janeiro, Brazil). Biogeosciences, 2015, 12, 6125-6146.	1.3	74
27	Metal mobilization in the Gironde Estuary (France): the role of the soft mud layer in the maximum turbidity zone. Marine Chemistry, 2004, 87, 1-13.	0.9	72
28	Modelling CO2 degassing from small acidic rivers using water pCO2, DIC and Î´13C-DIC data. Geochimica Et Cosmochimica Acta, 2012, 91, 220-239.	1.6	69
29	Turbidity limits gas exchange in a large macrotidal estuary. Estuarine, Coastal and Shelf Science, 2009, 83, 342-348.	0.9	67
30	Contribution of small mountainous rivers to particulate organic carbon input in the Bay of Biscay. Biogeochemistry, 2005, 74, 151-171.	1.7	65
31	The dynamics of phosphorus in turbid estuarine systems: Example of the Gironde estuary (France). Limnology and Oceanography, 2007, 52, 862-872.	1.6	65
32	Nitrous oxide emissions from tropical hydroelectric reservoirs. Geophysical Research Letters, 2008, 35, .	1.5	65
33	Diffusive methane emissions to the atmosphere from Lake Kivu (Eastern Africa). Journal of Geophysical Research, 2011, 116, .	3.3	65
34	Fatty acid and stable isotope (Î´13C, Î´15N) signatures of particulate organic matter in the lower Amazon River: Seasonal contrasts and connectivity between floodplain lakes and the mainstem. Organic Geochemistry, 2011, 42, 1159-1168.	0.9	64
35	Ideas and perspectives: Carbon leaks from flooded land: do we need to replumb the inland water active pipe?. Biogeosciences, 2019, 16, 769-784.	1.3	63
36	Role of tidal pumping on nutrient cycling in a temperate lagoon (Arcachon Bay, France). Marine Chemistry, 2008, 109, 98-114.	0.9	61

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37	Speciation of Mercury in a Fluid Mud Profile of a Highly Turbid Macrotidal Estuary (Gironde, France). Environmental Science & Technology, 2001, 35, 2627-2633.	4.6	60
38	Carbon dioxide degassing at the groundwater-stream-atmosphere interface: isotopic equilibration and hydrological mass balance in a sandy watershed. Journal of Hydrology, 2018, 558, 129-143.	2.3	58
39	The effects of river inflow and retention time on the spatial heterogeneity of chlorophyll and waterâ€“air CO₂ fluxes in a tropical hydropower reservoir. Biogeosciences, 2015, 12, 147-162.	1.3	57
40	Anaerobic decomposition of tropical soils and plant material: Implication for the CO2 and CH4 budget of the Petit Saut Reservoir. Applied Geochemistry, 2008, 23, 2272-2283.	1.4	56
41	Methane sources, sinks and fluxes in a temperate tidal Lagoon: The Arcachon lagoon (SW France). Estuarine, Coastal and Shelf Science, 2010, 89, 256-266.	0.9	56
42	Title is missing!. Biogeochemistry, 2002, 59, 5-23.	1.7	55
43	In situ measurements of dissolved gases (CO2 and CH4) in a wide range of concentrations in a tropical reservoir using an equilibrator. Science of the Total Environment, 2006, 354, 246-251.	3.9	54
44	The European land and inland water CO₂, CO, CH₄ and N₂O balance between 2001 and 2005. Biogeosciences, 2012, 9, 3357-3380.	1.3	53
45	Carbon dynamics and CO₂ and CH₄ outgassing in the Mekong delta. Biogeosciences, 2018, 15, 1093-1114.	1.3	53
46	Nitrogenâ€“alkalinity interactions in the highly polluted scheldt basin (belgium). Water Research, 2001, 35, 844-850.	5.3	52
47	Factors contributing to hypoxia in a highly turbid, macrotidal estuary (the Gironde, France). Environmental Sciences: Processes and Impacts, 2013, 15, 585.	1.7	52
48	Spatioâ€temporal variability of methane (CH₄) concentrations and diffusive fluxes from a tropical coastal embayment surrounded by a large urban area (Guanabara Bay, Rio de Janeiro, Brazil). Limnology and Oceanography, 2016, 61, S238.	1.6	48
49	Trophic opportunism of central Amazon floodplain fish. Freshwater Biology, 2015, 60, 1659-1670.	1.2	44
50	Effects of seasonal dynamics in a Zostera noltii meadow on phosphorus and iron cycles in a tidal mudflat (Arcachon Bay, France). Marine Ecology - Progress Series, 2008, 355, 59-71.	0.9	43
51	Impact of seasonal hydrological variation on the distributions of tetraether lipids along the Amazon River in the central Amazon basin: implications for the MBT/CBT paleothermometer and the BIT index. Frontiers in Microbiology, 2013, 4, 228.	1.5	40
52	Spatial and temporal CO₂ exchanges measured by Eddy Covariance over a temperate intertidal flat and their relationships to net ecosystem production. Biogeosciences, 2012, 9, 249-268.	1.3	39
53	Thermal enhancement of gas transfer velocity of CO₂ in an Amazon floodplain lake revealed by eddy covariance measurements. Geophysical Research Letters, 2013, 40, 1734-1740.	1.5	36
54	Excess atmospheric carbon dioxide transported by rivers into the Scheldt estuary. Comptes Rendus De L'AcadÃ©mie Des Sciences Earth & Planetary Sciences SÃ©rie II, Sciences De La Terre Et Des PlanÃ¨tes =, 2000, 330, 761-768.	0.2	34

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55	A massive dissolved inorganic carbon release at spring tide in a highly turbid estuary. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	34
56	Budget of methane emissions from soils, livestock and the river network at the regional scale of the Seine basin (France). Biogeochemistry, 2013, 116, 199-214.	1.7	34
57	Formation and volatilisation of alkyl-iodidesand -selenides in macrotidal estuaries. Biogeochemistry, 2002, 59, 183-206.	1.7	33
58	In vitro simulation of oxic/suboxic diagenesis in an estuarine fluid mud subjected to redox oscillations. Estuarine, Coastal and Shelf Science, 2010, 88, 279-291.	0.9	33
59	The transformation of macrophyteâ€derived organic matter to methane relates to plant water and nutrient contents. Limnology and Oceanography, 2019, 64, 1737-1749.	1.6	31
60	Invasive Aquatic Plants as Ecosystem Engineers in an Oligo-Mesotrophic Shallow Lake. Frontiers in Plant Science, 2018, 9, 1781.	1.7	27
61	An experimental approach to investigate mercury species transformations under redox oscillations in coastal sediments. Marine Environmental Research, 2011, 71, 1-9.	1.1	24
62	Export and degassing of terrestrial carbon through watercourses draining a temperate podzolized catchment. Aquatic Sciences, 2013, 75, 299-319.	0.6	24
63	Wood decomposition in Amazonian hydropower reservoirs: An additional source of greenhouse gases. Journal of South American Earth Sciences, 2013, 44, 104-107.	0.6	24
64	Sources and sinks of dissolved inorganic carbon in an urban tropical coastal bay revealed by Î´13C-DIC signals. Estuarine, Coastal and Shelf Science, 2019, 220, 185-195.	0.9	24
65	Hydro-ecological controls on dissolved carbon dynamics in groundwater and export to streams in a temperate pine forest. Biogeosciences, 2018, 15, 669-691.	1.3	23
66	Carbon emission along a eutrophication gradient in temperate riverine wetlands: effect of primary productivity and plant community composition. Freshwater Biology, 2016, 61, 1405-1420.	1.2	22
67	Impact of urban effluents on summer hypoxia in the highly turbid Gironde Estuary, applying a 3D model coupling hydrodynamics, sediment transport and biogeochemical processes. Journal of Marine Systems, 2017, 174, 89-105.	0.9	22
68	A multiâ€tracers analysis of sources and transfers of particulate organic matter in a tropical reservoir (Petit Saut, French Guiana). River Research and Applications, 2009, 25, 253-271.	0.7	21
69	Particulate Organic Matter Distribution along the Lower Amazon River: Addressing Aquatic Ecology Concepts Using Fatty Acids. PLoS ONE, 2012, 7, e46141.	1.1	20
70	Carbon Dioxide and Methane Emissions from Estuaries. , 0, , 187-207.		20
71	Benthic production, respiration and methane oxidation in Lobelia dortmanna lawns. Hydrobiologia, 2017, 784, 21-34.	1.0	18
72	Predominance of phytoplankton-derived dissolved and particulate organic carbon in a highly eutrophic tropical coastal embayment (Guanabara Bay, Rio de Janeiro, Brazil). Biogeochemistry, 2018, 137, 1-14.	1.7	17

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73	Greenhouse gas emissions (CO2 and CH4) and inorganic carbon behavior in an urban highly polluted tropical coastal lagoon (SE, Brazil). Environmental Science and Pollution Research, 2021, 28, 38173-38192.	2.7	17
74	Carbon dioxide sources and sinks in the delta of the ParaÃba do Sul River (Southeastern Brazil) modulated by carbonate thermodynamics, gas exchange and ecosystem metabolism during estuarine mixing. Marine Chemistry, 2020, 226, 103869.	0.9	15
75	The fate of C4 and C3 macrophyte carbon in central Amazon floodplain waters: Insights from a batch experiment. Limnologica, 2016, 59, 90-98.	0.7	14
76	Importance of the vegetation-groundwater-stream continuum to understand transformation of biogenic carbon in aquatic systems â€“ A case study based on a pine-maize comparison in a lowland sandy watershed (Landes de Gascogne, SW France). Science of the Total Environment, 2019, 661, 613-629.	3.9	14
77	Eutrophication overcoming carbonate precipitation in a tropical hypersaline coastal lagoon acting as a CO2 sink (Araruama Lagoon, SE Brazil). Biogeochemistry, 2021, 156, 231-254.	1.7	13
78	Export of 13C-depleted dissolved inorganic carbon from a tidal forest bordering the Amazon estuary. Estuarine, Coastal and Shelf Science, 2013, 129, 23-27.	0.9	12
79	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
80	Aragonite saturation state in a tropical coastal embayment dominated by phytoplankton blooms (Guanabara Bay â€“ Brazil). Marine Pollution Bulletin, 2018, 129, 729-739.	2.3	12
81	In vitro simulation of oscillatory redox conditions in intertidal sediments: N, Mn, Fe, and P coupling. Continental Shelf Research, 2019, 177, 33-41.	0.9	11
82	Thermodynamic uptake of atmospheric CO2 in the oligotrophic and semiarid SÃ£o Francisco estuary (NE) Tj ETQq0 0 0 rgBT /Overlock 1	0.9	11
83	Effet de la turbiditÃ© sur la dÃ©gradation des pigments phytoplanctoniques dans l'estuaire de la Gironde. Comptes Rendus - Geoscience, 2002, 334, 251-258.	0.4	10
84	Hydrological pulse regulating the bacterial heterotrophic metabolism between Amazonian mainstems and floodplain lakes. Frontiers in Microbiology, 2015, 6, 1054.	1.5	10
85	Spatial and seasonal contrasts of sedimentary organic matter in floodplain lakes of the central Amazon basin. Biogeosciences, 2016, 13, 467-482.	1.3	10
86	Future intensification of summer hypoxia in the tidal Garonne River (SW France) simulated by a coupled hydro sedimentary-biogeochemical model. Environmental Science and Pollution Research, 2018, 25, 31957-31970.	2.7	10
87	Denitrification and associated nitrous oxide and carbon dioxide emissions from the Amazonian wetlands. Biogeosciences, 2020, 17, 4297-4311.	1.3	9
88	Carbon dynamics driven by seawater recirculation and groundwater discharge along a forest-dune-beach continuum of a high-energy meso-macro-tidal sandy coast. Geochimica Et Cosmochimica Acta, 2022, 317, 18-38.	1.6	9
89	Comments on: â€œUnderwater measurements of carbon dioxide evolution in marine plant communities: A new methodâ€•by J. Silva and R. Santos [Estuarine, Coastal and Shelf Science 78(2008) 827â€“830]. Estuarine, Coastal and Shelf Science, 2009, 82, 357-360.	0.9	8
90	Dynamics of coarse particulate matter in the turbidity maximum zone of the Gironde Estuary. Comptes Rendus - Geoscience, 2014, 346, 28-36.	0.4	5

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91	Comparing the efficiency of hypoxia mitigation strategies in an urban, turbid tidal river via a coupled hydro-sedimentaryâ€“biogeochemical model. Natural Hazards and Earth System Sciences, 2019, 19, 2551-2564.	1.5	5
92	The Lateral Carbon Pump, and the European Carbon Balance. Ecological Studies, 2008, , 341-360.	0.4	5
93	A CO2 sink in a tropical coastal lagoon impacted by cultural eutrophication and upwelling. Estuarine, Coastal and Shelf Science, 2021, 263, 107633.	0.9	5
94	ComparaÃ§Ãµes entre mediÃ§Ãµes em tempo real da pCO2 aquÃ¡tica com estimativas indiretas em dois estuÃ¡rios tropicais contrastantes: o estuÃ¡rio eutrofizado da BaÃa de Guanabara (RJ) e o estuÃ¡rio oligotrÃ³fico do rio SÃ£o Francisco (AL). Quimica Nova, 0, , .	0.3	4
95	ESTABLISHING WATER SAMPLE PROTOCOLS FOR RADIOCARBON ANALYSIS AT LAC-UFF, BRAZIL. Radiocarbon, 2021, 63, 1225-1232.	0.8	2
96	Long Term Greenhouse Gas Emissions from the Hydroelectric Reservoir of Petit Saut (French Guiana) and Potential Impacts. , 0, , 293-312.		1