Frederic Guerin

List of Publications by Year
in descending order

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37 papers	2,326 citations	304602 22 h-index	330025 37 g-index
48 all docs	48 docs citations	48 times ranked	2593 citing authors

#	Article	IF	Citations
1	Carbon dioxide and methane emissions and the carbon budget of a 10-year old tropical reservoir (Petit) Tj ETQq1 1 0.784314 rgBT /O	1.9	379
2	Globally significant greenhouse-gas emissions from African inland waters. Nature Geoscience, 2015, 8, 637-642.	5.4	348
3	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
4	Methane and carbon dioxide emissions from tropical reservoirs: Significance of downstream rivers. Geophysical Research Letters, 2006, 33, .	1.5	191
5	Greenhouse Gas Emissions from Freshwater Reservoirs: What Does the Atmosphere See?. Ecosystems, 2018, 21, 1058-1071.	1.6	145
6	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
7	Enhanced methane oxidation in an estuarine turbidity maximum. Limnology and Oceanography, 2007, 52, 470-475.	1.6	74
8	Turbidity limits gas exchange in a large macrotidal estuary. Estuarine, Coastal and Shelf Science, 2009, 83, 342-348.	0.9	67
9	Nitrous oxide emissions from tropical hydroelectric reservoirs. Geophysical Research Letters, 2008, 35, .	1.5	65
10	Gross CO2 and CH4 emissions from the Nam Ngum and Nam Leuk sub-tropical reservoirs in Lao PDR. Science of the Total Environment, 2011, 409, 5382-5391.	3.9	65
11	Budgets of Mn, Cd and Cu in the macrotidal Gironde estuary (SW France). Marine Chemistry, 2007, 107, 433-448.	0.9	58
12	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
13	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
14	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
15	Physical controls on CH₄ emissions from a newly flooded subtropical freshwater hydroelectric reservoir: Nam Theun 2. Biogeosciences, 2014, 11, 4251-4269.	1.3	51
16	Stable carbon isotope biogeochemistry of propionate and acetate in methanogenic soils and lake sediments. Organic Geochemistry, 2014, 73, 1-7.	0.9	37
17	Methane and nitrous oxide annual emissions from an old eutrophic temperate reservoir. Science of the Total Environment, 2017, 598, 959-972.	3.9	36
18	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

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19	Identification of spikes associated with local sources in continuous time series of atmospheric CO, CO₂ and CH₄. Atmospheric Measurement Techniques, 2018, 11, 1599-1614.	1.2	31
20	Carbon sequestration in soil amended with anaerobic digested matter. Soil and Tillage Research, 2019, 192, 87-94.	2.6	28
21	N2O flux measurements over an irrigated maize crop: A comparison of three methods. Agricultural and Forest Meteorology, 2019, 264, 56-72.	1.9	25
22	Low methane (CH₄) emissions downstream of a monomictic subtropical hydroelectric reservoir (Nam Theun 2, Lao PDR). Biogeosciences, 2016, 13, 1919-1932.	1.3	23
23	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
24	Evolution of the physico-chemical water quality in the Nam Theun 2 Reservoir and downstream rivers for the first 5 years after impoundment. Hydroecologie Appliquee, 2016, 19, 27-61.	1.3	20
25	Livestock induces strong spatial heterogeneity of soil CO2, N2O and CH4 emissions within a semi-arid sylvo-pastoral landscape in West Africa. Journal of Arid Land, 2017, 9, 210-221.	0.9	18
26	Effect of sporadic destratification, seasonal overturn, and artificial mixing on CH₄ emissions from a subtropical hydroelectric reservoir. Biogeosciences, 2016, 13, 3647-3663.	1.3	17
27	Aerobic release and biodegradation of dissolved organic matter from frozen peat: Effects of temperature and heterotrophic bacteria. Chemical Geology, 2020, 536, 119448.	1.4	16
28	Carbon emission from thermokarst lakes in <scp>NE</scp> European tundra. Limnology and Oceanography, 2021, 66, S216.	1.6	16
29	Nam Theun 2 Reservoir four years after commissioning: significance of drawdown methane emissions and other pathways. Hydroecologie Appliquee, 2016, 19, 119-146.	1.3	16
30	Carbon dioxide emissions from the flat bottom and shallow Nam Theun 2 Reservoir: drawdown area as a neglected pathway to the atmosphere. Biogeosciences, 2018, 15, 1775-1794.	1.3	15
31	Hydrodynamic and water quality 3D modelling of the Nam Theun 2 Reservoir (Lao PDR): predictions and results of scenarios related to reservoir management, hydrometeorology and nutrient input. Hydroecologie Appliquee, 2016, 19, 87-118.	1.3	8
32	Paris Climate Agreement: Promoting Interdisciplinary Science and Stakeholdersâ€™ Approaches for Multi-Scale Implementation of Continental Carbon Sequestration. Sustainability, 2020, 12, 6715.	1.6	7
33	Methane and Carbon Dioxide Dynamics in the Paraguay River Floodplain (Pantanal) in Episodic Anoxia Events. Handbook of Environmental Chemistry, 2015, , 163-178.	0.2	6
34	Efficiency of the Nam Theun 2 hydraulic structures on water aeration and methane degassing. Hydroecologie Appliquee, 2016, 19, 63-86.	1.3	6
35	Understanding N2O Emissions in African Ecosystems: Assessments from a Semi-Arid Savanna Grassland in Senegal and Sub-Tropical Agricultural Fields in Kenya. Sustainability, 2020, 12, 8875.	1.6	5
36	Partitioning carbon sources between wetland and well-drained ecosystems to a tropical first-order stream â€“ implications for carbon cycling at the watershed scale (Nyong, Cameroon). Biogeosciences, 2022, 19, 137-163.	1.3	3

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37	First Assessment of Inorganic Nitrogen Deposition Budget Following the Impoundment of a Subtropical Hydroelectric Reservoir (Nam Theun 2, Lao PDR). Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,413-12,428.	1.2	0