

# Rafael MarcÃ©

## List of Publications by Year in descending order

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Version: 2024-02-01

110  
papers

4,611  
citations

117453

34  
h-index

110170

64  
g-index

125  
all docs

125  
docs citations

125  
times ranked

6584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cross-continental importance of CH <sub>4</sub> emissions from dry inland-waters. <i>Science of the Total Environment</i> , 2022, 814, 151925.	3.9	13
2	The relevance of pelagic calcification in the global carbon budget of lakes and reservoirs. , 2022, 41, 17-25.		10
3	Spatio-temporal variability of carbon dioxide and methane emissions from a Mediterranean reservoir. , 2022, 41, 43-60.		3
4	Carbon dioxide emission from drawdown areas of a Mediterranean reservoir. , 2022, 41, 61-72.		3
5	Drivers of phytoplankton responses to summer wind events in a stratified lake: A modeling study. <i>Limnology and Oceanography</i> , 2022, 67, 856-873.	1.6	8
6	Drivers of variability in disinfection by-product formation potential in a chain of thermally stratified drinking water reservoirs. <i>Environmental Science: Water Research and Technology</i> , 2022, 8, 968-980.	1.2	1
7	Opportunities for seasonal forecasting to support water management outside the tropics. <i>Hydrology and Earth System Sciences</i> , 2022, 26, 1389-1406.	1.9	10
8	Hydrology influences carbon flux through metabolic pathways in the hypolimnion of a Mediterranean reservoir. <i>Aquatic Sciences</i> , 2022, 84, .	0.6	2
9	Global increase in methane production under future warming of lake bottom waters. <i>Global Change Biology</i> , 2022, 28, 5427-5440.	4.2	27
10	A framework for ensemble modelling of climate change impacts on lakes worldwide: the ISIMIP Lake Sector. <i>Geoscientific Model Development</i> , 2022, 15, 4597-4623.	1.3	37
11	The drawdown phase of dam decommissioning is a hot moment of gaseous carbon emissions from a temperate reservoir. <i>Inland Waters</i> , 2022, 12, 451-462.	1.1	3
12	Drastic reduction of nutrient loading to a reservoir alters its resistance to impacts of extreme climatic events. <i>Environmental Research Letters</i> , 2022, 17, 084007.	2.2	2
13	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021, 66, 306-320.	1.6	31
14	Eutrophication and Geochemistry Drive Pelagic Calcite Precipitation in Lakes. <i>Water (Switzerland)</i> , 2021, 13, 597.	1.2	5
15	Technical note: CO <sub>2</sub> is not like CH <sub>4</sub> limits of and corrections to the headspace method to analyse CO <sub>2</sub> in fresh water. <i>Biogeosciences</i> , 2021, 18, 1619-1627.	1.3	36
16	Phenological shifts in lake stratification under climate change. <i>Nature Communications</i> , 2021, 12, 2318.	5.8	118
17	Global carbon budget of reservoirs is overturned by the quantification of drawdown areas. <i>Nature Geoscience</i> , 2021, 14, 402-408.	5.4	70
18	Climate and Land Cover Trends Affecting Freshwater Inputs to a Fjord in Northwestern Patagonia. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	4

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19	Dissolved organic matter spectroscopy reveals a hot spot of organic matter changes at the river-reservoir boundary. <i>Aquatic Sciences</i> , 2021, 83, 1.	0.6	10
20	Forecasting water temperature in lakes and reservoirs using seasonal climate prediction. <i>Water Research</i> , 2021, 201, 117286.	5.3	11
21	Attribution of global lake systems change to anthropogenic forcing. <i>Nature Geoscience</i> , 2021, 14, 849-854.	5.4	70
22	Hidden treasures: Human-made aquatic ecosystems harbour unexplored opportunities. <i>Ambio</i> , 2020, 49, 531-540.	2.8	28
23	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006495.	1.9	29
24	Management actions to mitigate the occurrence of pharmaceuticals in river networks in a global change context. <i>Environment International</i> , 2020, 143, 105993.	4.8	19
25	Global Heat Uptake by Inland Waters. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087867.	1.5	31
26	Major Effects of Alkalinity on the Relationship Between Metabolism and Dissolved Inorganic Carbon Dynamics in Lakes. <i>Ecosystems</i> , 2020, 23, 1566-1580.	1.6	19
27	Global CO <sub>2</sub> emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020, 11, 2126.	5.8	73
28	Reuniting biogeochemistry with ecology and evolution. <i>Science</i> , 2019, 366, 805-806.	6.0	0
29	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1251-1263.	1.9	48
30	River pollution by priority chemical substances under the Water Framework Directive: A provisional pan-European assessment. <i>Science of the Total Environment</i> , 2019, 662, 434-445.	3.9	30
31	GLOBAL-FATE (version 1.0.0): A geographical information system (GIS)-based model for assessing contaminants fate in the global river network. <i>Geoscientific Model Development</i> , 2019, 12, 5213-5228.	1.3	16
32	Emissions from dry inland waters are a blind spot in the global carbon cycle. <i>Earth-Science Reviews</i> , 2019, 188, 240-248.	4.0	93
33	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , 2019, 188, 441-453.	4.0	54
34	Contribution of Hydrologic Opportunity and Biogeochemical Reactivity to the Variability of Nutrient Retention in River Networks. <i>Global Biogeochemical Cycles</i> , 2018, 32, 376-388.	1.9	44
35	Dry habitats sustain high CO <sub>2</sub> emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018, 8, 3015.	1.6	35
36	Abundance of antibiotic resistance genes and bacterial community composition in wild freshwater fish species. <i>Chemosphere</i> , 2018, 196, 115-119.	4.2	59

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37	Does the severity of non-flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. <i>Freshwater Biology</i> , 2018, 63, 613-625.	1.2	11
38	From End-of-Pipe to Nature Based Solutions: a Simple Statistical Tool for Maximizing the Ecosystem Services Provided by Reservoirs for Drinking Water Treatment. <i>Water Resources Management</i> , 2018, 32, 1307-1323.	1.9	5
39	Occurrence et devenir des polluants émergents (antibiotiques) dans un aquifère alluvial et leur influence sur les bactéries multi-résistantes (Bas-Fluvié, Catalogne). <i>Houille Blanche</i> , 2018, 104, 47-52.	0.3	0
40	Effect of small water retention structures on diffusive CO <sub>2</sub> and CH <sub>4</sub> emissions along a highly impounded river. <i>Inland Waters</i> , 2018, 8, 449-460.	1.1	5
41	Effects of human-driven water stress on river ecosystems: a meta-analysis. <i>Scientific Reports</i> , 2018, 8, 11462.	1.6	104
42	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. <i>Toxins</i> , 2018, 10, 156.	1.5	159
43	A universal bacterial inoculum for dissolved organic carbon biodegradation experiments in freshwaters. <i>Limnology and Oceanography: Methods</i> , 2018, 16, 421-433.	1.0	4
44	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. <i>Scientific Data</i> , 2018, 5, 180226.	2.4	30
45	Primer C-Hydrochange workshop sobre métodos y técnicas de medida de flujos de CO <sub>2</sub> y CH <sub>4</sub> en lagos y embalses. <i>Écosistemas</i> , 2018, 27, 142-143.	0.2	0
46	A tale of pipes and reactors: Controls on the in-stream dynamics of dissolved organic matter in rivers. <i>Limnology and Oceanography</i> , 2017, 62, S85.	1.6	82
47	Abundance and Co-Distribution of Widespread Marine Archaeal Lineages in Surface Sediments of Freshwater Water Bodies across the Iberian Peninsula. <i>Microbial Ecology</i> , 2017, 74, 776-787.	1.4	15
48	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 131-144.	1.3	50
49	Incorporating model uncertainty into the evaluation of interventions to reduce microcontaminant loads in rivers. <i>Water Research</i> , 2017, 124, 415-424.	5.3	16
50	Influence of seasonal freshwater streamflow regimes on phytoplankton blooms in a Patagonian fjord. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2017, 51, 304-315.	0.8	34
51	Assessing the impacts of 1.5°C global warming “ simulation protocol of the Inter-Sectoral Impact Model Intercomparison Project (ISIMIP2b). <i>Geoscientific Model Development</i> , 2017, 10, 4321-4345.	1.3	410
52	Runoff Trends Driven by Climate and Afforestation in a Pyrenean Basin. <i>Land Degradation and Development</i> , 2016, 27, 823-838.	1.8	94
53	Organic carbon decomposition rates controlled by water retention time across inland waters. <i>Nature Geoscience</i> , 2016, 9, 501-504.	5.4	292
54	Automatic High Frequency Monitoring for Improved Lake and Reservoir Management. <i>Environmental Science &amp; Technology</i> , 2016, 50, 10780-10794.	4.6	104

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55	Flow regulation increases food chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , 2016, 61, 1536-1549.	1.2	28
56	Effects of subinhibitory ciprofloxacin concentrations on the abundance of qnrS and composition of bacterial communities from water supply reservoirs. <i>Chemosphere</i> , 2016, 161, 470-474.	4.2	12
57	Low contribution of internal metabolism to carbon dioxide emissions along lotic and lentic environments of a Mediterranean fluvial network. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 3030-3044.	1.3	20
58	Using dynamic factor analysis to show how sampling resolution and data gaps affect the recognition of patterns in limnological time series. <i>Inland Waters</i> , 2016, 6, 284-294.	1.1	8
59	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , 2016, 35, 1133-1147.	0.9	14
60	El Niño southern oscillation and seasonal drought drive riparian input dynamics in a Mediterranean stream. <i>Limnology and Oceanography</i> , 2016, 61, 214-226.	1.6	12
61	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , 2016, 19, 710-723.	1.6	70
62	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. <i>Biogeochemistry</i> , 2016, 127, 125-139.	1.7	36
63	Ecosystem Metabolism in River Networks and Global Climate Change. , 2016, , 137-152.		0
64	Detection and attribution of global change effects on river nutrient dynamics in a large Mediterranean basin. <i>Biogeosciences</i> , 2015, 12, 4085-4098.	1.3	17
65	Introduction on Emerging Contaminants in Rivers and Their Environmental Risk. <i>Handbook of Environmental Chemistry</i> , 2015, , 3-25.	0.2	9
66	Fate and Degradation of Emerging Contaminants in Rivers: Review of Existing Models. <i>Handbook of Environmental Chemistry</i> , 2015, , 159-193.	0.2	2
67	Carbonate weathering as a driver of CO <sub>2</sub> supersaturation in lakes. <i>Nature Geoscience</i> , 2015, 8, 107-111.	5.4	138
68	Emission factor estimation of ca. 160 emerging organic microcontaminants by inverse modeling in a Mediterranean river basin (Llobregat, NE Spain). <i>Science of the Total Environment</i> , 2015, 520, 241-252.	3.9	31
69	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , 2015, 125, 409-426.	1.7	58
70	Using equilibrium temperature to assess thermal disturbances in rivers. <i>Hydrological Processes</i> , 2015, 29, 4350-4360.	1.1	9
71	Assessing Ecological Integrity in Large Reservoirs According to the Water Framework Directive. <i>Handbook of Environmental Chemistry</i> , 2015, , 201-219.	0.2	1
72	Assessment of the water supply:demand ratios in a Mediterranean basin under different global change scenarios and mitigation alternatives. <i>Science of the Total Environment</i> , 2014, 470-471, 567-577.	3.9	168

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73	Distribution of dissolved organic matter in freshwaters using excitation emission fluorescence and Multivariate Curve Resolution. <i>Chemosphere</i> , 2014, 111, 120-128.	4.2	10
74	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , 2014, 4, 377-382.	1.1	69
75	The combined impact of land use change and aquaculture on sediment and water quality in oligotrophic Lake Rupanco (North Patagonia, Chile, 40.8Å°S). <i>Journal of Environmental Management</i> , 2013, 128, 283-291.	3.8	34
76	Examining the Demand for Ecosystem Services: The Value of Stream Restoration for Drinking Water Treatment Managers in the Llobregat River, Spain. <i>Ecological Economics</i> , 2013, 90, 196-205.	2.9	39
77	Modelling the emerging pollutant diclofenac with the GREAT-ER model: Application to the Llobregat River Basin. <i>Journal of Hazardous Materials</i> , 2013, 263, 207-213.	6.5	34
78	Exploring the links between antibiotic occurrence, antibiotic resistance, and bacterial communities in water supply reservoirs. <i>Science of the Total Environment</i> , 2013, 456-457, 161-170.	3.9	288
79	Influence of hydrological regime of an Andean river on salinity, temperature and oxygen in a Patagonia fjord, Chile. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2013, 47, 515-528.	0.8	27
80	Modeling nutrient retention at the watershed scale: Does small stream research apply to the whole river network?. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 728-740.	1.3	20
81	The Llobregat River Basin: A Paradigm of Impaired Rivers Under Climate Change Threats. <i>Handbook of Environmental Chemistry</i> , 2012, , 1-26.	0.2	16
82	In-Stream Nutrient Flux and Retention in Relation to Land Use in the Llobregat River Basin. <i>Handbook of Environmental Chemistry</i> , 2012, , 69-92.	0.2	7
83	Characterization of residence time variability in a managed monomictic reservoir. <i>Water Resources Research</i> , 2012, 48, .	1.7	12
84	Linking in-stream nutrient flux to land use and inter-annual hydrological variability at the watershed scale. <i>Science of the Total Environment</i> , 2012, 440, 72-81.	3.9	32
85	Occurrence and modeling of pharmaceuticals on a sewage-impacted Mediterranean river and their dynamics under different hydrological conditions. <i>Science of the Total Environment</i> , 2012, 440, 3-13.	3.9	124
86	Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012, 74, 315-327.	0.6	17
87	Net heterotrophy and CO <sub>2</sub> evasion from a productive calcareous reservoir: Adding complexity to the metabolism-CO <sub>2</sub> evasion issue. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
88	Analysing the effect of global change on the historical trends of water resources in the headwaters of the Llobregat and Ter river basins (Catalonia, Spain). <i>Physics and Chemistry of the Earth</i> , 2011, 36, 655-661.	1.2	35
89	Combined scenarios of chemical and ecological quality under water scarcity in Mediterranean rivers. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1269-1278.	5.8	91
90	The Effect of River Water Circulation on the Distribution and Functioning of Reservoir Microbial Communities as Determined by a Relative Distance Approach. <i>Ecosystems</i> , 2011, 14, 1-14.	1.6	21

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91	A calibration strategy for dynamic succession models including several phytoplankton groups. <i>Environmental Modelling and Software</i> , 2011, 26, 697-710.	1.9	35
92	Dams and Reservoirs in the Lower Ebro River and Its Effects on the River Thermal Cycle. <i>Handbook of Environmental Chemistry</i> , 2010, , 77-95.	0.2	10
93	On non-Eltonian methods of hunting Cladocera, or impacts of the introduction of planktivorous fish on zooplankton composition and clear-water phase occurrence in a Mediterranean reservoir. <i>Hydrobiologia</i> , 2010, 653, 119-129.	1.0	14
94	Tailoring dam structures to water quality predictions in new reservoir projects: Assisting decision-making using numerical modeling. <i>Journal of Environmental Management</i> , 2010, 91, 1255-1267.	3.8	35
95	El Niño Southern Oscillation and climate trends impact reservoir water quality. <i>Global Change Biology</i> , 2010, 16, 2857-2865.	4.2	63
96	Driving factors of the phytoplankton functional groups in a deep Mediterranean reservoir. <i>Water Research</i> , 2010, 44, 3345-3354.	5.3	157
97	On non-Eltonian methods of hunting Cladocera, or impacts of the introduction of planktivorous fish on zooplankton composition and clear-water phase occurrence in a Mediterranean reservoir. , 2010, , 119-129.		0
98	Modeling nutrient in-stream processes at the watershed scale using Nutrient Spiralling metrics. <i>Hydrology and Earth System Sciences</i> , 2009, 13, 953-967.	1.9	26
99	Ecological classification of a set of Mediterranean reservoirs applying the EU Water Framework Directive: A reasonable compromise between science and management. <i>Lake and Reservoir Management</i> , 2009, 25, 364-376.	0.4	25
100	Sedimentary phosphorus in a cascade of five reservoirs (Lozoya River, Central Spain). <i>Lake and Reservoir Management</i> , 2009, 25, 39-48.	0.4	14
101	Water Quality in Reservoirs Under a Changing Climate. <i>Handbook of Environmental Chemistry</i> , 2009, , 73-94.	0.2	2
102	The Role of Allochthonous Inputs of Dissolved Organic Carbon on the Hypolimnetic Oxygen Content of Reservoirs. <i>Ecosystems</i> , 2008, 11, 1035-1053.	1.6	29
103	Modelling river water temperature using deterministic, empirical, and hybrid formulations in a Mediterranean stream. <i>Hydrological Processes</i> , 2008, 22, 3418-3430.	1.1	22
104	Hydraulic Management Drives Heat Budgets and Temperature Trends in a Mediterranean Reservoir. <i>International Review of Hydrobiology</i> , 2008, 93, 131-147.	0.5	34
105	Using spatially distributed parameters and multi-response objective functions to solve parameterization of complex applications of semi-distributed hydrological models. <i>Water Resources Research</i> , 2008, 44, .	1.7	21
106	The role of river inputs on the hypolimnetic chemistry of a productive reservoir: implications for management of anoxia and total phosphorus internal loading. <i>Lake and Reservoir Management</i> , 2008, 24, 87-98.	0.4	13
107	Interaction between wind-induced seiches and convective cooling governs algal distribution in a canyon-shaped reservoir. <i>Freshwater Biology</i> , 2007, 52, 1336-1352.	1.2	40
108	A neuro-fuzzy modeling tool to estimate fluvial nutrient loads in watersheds under time-varying human impact. <i>Limnology and Oceanography: Methods</i> , 2004, 2, 342-355.	1.0	46

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109	A Methodological Framework for Characterizing the Spatiotemporal Variability of River Water-Quality Patterns Using Dynamic Factor Analysis. <i>Journal of Environmental Informatics</i> , 0, , .	6.0	1
110	Securing Biodiversity, Functional Integrity, and Ecosystem Services in Drying River Networks (DRYvER). <i>Research Ideas and Outcomes</i> , 0, 7, .	1.0	4