

Rafael Marc

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

98
papers

3,007
citations

29
h-index

51
g-index

125
ext. papers

3,793
ext. citations

6.1
avg, IF

5.15
L-index

#	Paper	IF	Citations
98	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	6.3	240
97	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, 161-70	10.2	221
96	Organic carbon decomposition rates controlled by water retention time across inland waters. <i>Nature Geoscience</i> , 2016 , 9, 501-504	18.3	192
95	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, 567-77	10.2	124
94	Driving factors of the phytoplankton functional groups in a deep Mediterranean reservoir. <i>Water Research</i> , 2010 , 44, 3345-54	12.5	114
93	Temperature Effects Explain Continental Scale Distribution of Cyanobacterial Toxins. <i>Toxins</i> , 2018 , 10,	4.9	109
92	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	10.2	108
91	Carbonate weathering as a driver of CO2 supersaturation in lakes. <i>Nature Geoscience</i> , 2015 , 8, 107-111	18.3	103
90	Combined scenarios of chemical and ecological quality under water scarcity in Mediterranean rivers. <i>TrAC - Trends in Analytical Chemistry</i> , 2011 , 30, 1269-1278	14.6	82
89	Runoff Trends Driven by Climate and Afforestation in a Pyrenean Basin. <i>Land Degradation and Development</i> , 2016 , 27, 823-838	4.4	74
88	Effects of human-driven water stress on river ecosystems: a meta-analysis. <i>Scientific Reports</i> , 2018 , 8, 11462	4.9	70
87	Automatic High Frequency Monitoring for Improved Lake and Reservoir Management. <i>Environmental Science & Technology</i> , 2016 , 50, 10780-10794	10.3	65
86	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-S94	4.8	58
85	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , 2014 , 4, 377-382	2.4	57
84	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , 2016 , 19, 710-723	3.9	54
83	Emissions from dry inland waters are a blind spot in the global carbon cycle. <i>Earth-Science Reviews</i> , 2019 , 188, 240-248	10.2	51
82	El Niño Southern Oscillation and climate trends impact reservoir water quality. <i>Global Change Biology</i> , 2010 , 16, 2857-2865	11.4	49

81	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , 2015 , 125, 409-426	3.8	42
80	Abundance of antibiotic resistance genes and bacterial community composition in wild freshwater fish species. <i>Chemosphere</i> , 2018 , 196, 115-119	8.4	39
79	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	5.6	36
78	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	10.2	36
77	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	2.6	35
76	Global CO emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020 , 11, 2126	17.4	33
75	Interaction between wind-induced seiches and convective cooling governs algal distribution in a canyon-shaped reservoir. <i>Freshwater Biology</i> , 2007 , 52, 1336-1352	3.1	33
74	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 131-144	3.7	30
73	Hydraulic Management Drives Heat Budgets and Temperature Trends in a Mediterranean Reservoir. <i>International Review of Hydrobiology</i> , 2008 , 93, 131-147	2.3	30
72	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	5.9	29
71	Modelling the emerging pollutant diclofenac with the GREAT-ER model: application to the Llobregat River Basin. <i>Journal of Hazardous Materials</i> , 2013 , 263 Pt 1, 207-13	12.8	29
70	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	3.2	29
69	A calibration strategy for dynamic succession models including several phytoplankton groups. <i>Environmental Modelling and Software</i> , 2011 , 26, 697-710	5.2	29
68	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, 1255-67	7.9	29
67	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1251-1263	5.9	28
66	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	10.2	28
65	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. <i>Biogeochemistry</i> , 2016 , 127, 125-139	3.8	27
64	Phenological shifts in lake stratification under climate change. <i>Nature Communications</i> , 2021 , 12, 2318	17.4	27

63	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	1.3	26
62	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, 241-52	10.2	25
61	The combined impact of land use change and aquaculture on sediment and water quality in oligotrophic Lake Rupanco (North Patagonia, Chile, 40.8°S). <i>Journal of Environmental Management</i> , 2013 , 128, 283-91	7.9	24
60	The Role of Allochthonous Inputs of Dissolved Organic Carbon on the Hypolimnetic Oxygen Content of Reservoirs. <i>Ecosystems</i> , 2008 , 11, 1035-1053	3.9	23
59	Dry habitats sustain high CO emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018 , 8, 3015	4.9	22
58	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	1.3	22
57	Modeling nutrient in-stream processes at the watershed scale using Nutrient Spiralling metrics. <i>Hydrology and Earth System Sciences</i> , 2009 , 13, 953-967	5.5	22
56	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	1.3	22
55	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,	5.4	20
54	Flow regulation increases food-chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , 2016 , 61, 1536-1549	3.1	20
53	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	3.7	19
52	Modelling river water temperature using deterministic, empirical, and hybrid formulations in a Mediterranean stream. <i>Hydrological Processes</i> , 2008 , 22, 3418-3430	3.3	19
51	Net heterotrophy and CO2 evasion from a productive calcareous reservoir: Adding complexity to the metabolism-CO2 evasion issue. <i>Journal of Geophysical Research</i> , 2011 , 116,		17
50	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	3.9	17
49	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	10.2	17
48	Global Heat Uptake by Inland Waters. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087867	4.9	16
47	Hidden treasures: Human-made aquatic ecosystems harbour unexplored opportunities. <i>Ambio</i> , 2020 , 49, 531-540	6.5	16
46	Detection and attribution of global change effects on river nutrient dynamics in a large Mediterranean basin. <i>Biogeosciences</i> , 2015 , 12, 4085-4098	4.6	15

45	A European Multi Lake Survey dataset of environmental variables, phytoplankton pigments and cyanotoxins. <i>Scientific Data</i> , 2018 , 5, 180226	8.2	15
44	Localized algal blooms induced by river inflows in a canyon type reservoir. <i>Aquatic Sciences</i> , 2012 , 74, 315-327	2.5	14
43	The Llobregat River Basin: A Paradigm of Impaired Rivers Under Climate Change Threats. <i>Handbook of Environmental Chemistry</i> , 2012 , 1-26	0.8	14
42	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	3.7	13
41	Sedimentary phosphorus in a cascade of five reservoirs (Lozoya River, Central Spain). <i>Lake and Reservoir Management</i> , 2009 , 25, 39-48	1.3	13
40	Incorporating model uncertainty into the evaluation of interventions to reduce microcontaminant loads in rivers. <i>Water Research</i> , 2017 , 124, 415-424	12.5	12
39	Characterization of residence time variability in a managed monomictic reservoir. <i>Water Resources Research</i> , 2012 , 48,	5.4	12
38	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	1.3	12
37	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006495	5.9	12
36	Global carbon budget of reservoirs is overturned by the quantification of drawdown areas. <i>Nature Geoscience</i> , 2021 , 14, 402-408	18.3	12
35	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	4.4	11
34	Major Effects of Alkalinity on the Relationship Between Metabolism and Dissolved Inorganic Carbon Dynamics in Lakes. <i>Ecosystems</i> , 2020 , 23, 1566-1580	3.9	10
33	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , 2016 , 35, 1133-1147	2	10
32	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	0.8	10
31	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	2.4	10
30	El Niño southern oscillation and seasonal drought drive riparian input dynamics in a Mediterranean stream. <i>Limnology and Oceanography</i> , 2016 , 61, 214-226	4.8	9
29	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	6.3	9
28	Using equilibrium temperature to assess thermal disturbances in rivers. <i>Hydrological Processes</i> , 2015 , 29, 4350-4360	3.3	8

27	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	3.1	8
26	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	8.4	8
25	Attribution of global lake systems change to anthropogenic forcing. <i>Nature Geoscience</i> ,	18.3	8
24	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	2.4	7
23	Distribution of dissolved organic matter in freshwaters using excitation emission fluorescence and Multivariate Curve Resolution. <i>Chemosphere</i> , 2014 , 111, 120-8	8.4	7
22	Management actions to mitigate the occurrence of pharmaceuticals in river networks in a global change context. <i>Environment International</i> , 2020 , 143, 105993	12.9	7
21	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	0.8	6
20	Technical note: CO ₂ is not like CH ₄ ; limits of and corrections to the headspace method to analyse CO ₂ in fresh water. <i>Biogeosciences</i> , 2021 , 18, 1619-1627	4.6	6
19	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021 , 66, 306-320	4.8	6
18	Modeling nutrient in-stream processes at the watershed scale using Nutrient Spiralling metrics 2009 ,		4
17	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	3.7	4
16	A universal bacterial inoculum for dissolved organic carbon biodegradation experiments in freshwaters. <i>Limnology and Oceanography: Methods</i> , 2018 , 16, 421-433	2.6	3
15	Introduction on Emerging Contaminants in Rivers and Their Environmental Risk. <i>Handbook of Environmental Chemistry</i> , 2015 , 3-25	0.8	3
14	Global heat uptake by inland waters		3
13	Drivers of phytoplankton responses to summer wind events in a stratified lake: A modeling study. <i>Limnology and Oceanography</i> ,	4.8	2
12	Effect of small water retention structures on diffusive CO ₂ and CH ₄ emissions along a highly impounded river. <i>Inland Waters</i> , 2018 , 8, 449-460	2.4	2
11	Climate and Land Cover Trends Affecting Freshwater Inputs to a Fjord in Northwestern Patagonia. <i>Frontiers in Marine Science</i> , 2021 , 8,	4.5	2
10	Assessing Ecological Integrity in Large Reservoirs According to the Water Framework Directive. <i>Handbook of Environmental Chemistry</i> , 2015 , 201-219	0.8	1

9	Fate and Degradation of Emerging Contaminants in Rivers: Review of Existing Models. <i>Handbook of Environmental Chemistry</i> , 2015 , 159-193	0.8	1
8	Water Quality in Reservoirs Under a Changing Climate. <i>Handbook of Environmental Chemistry</i> , 2009 , 73-94.8	0.8	1
7	Forecasting water temperature in lakes and reservoirs using seasonal climate prediction. <i>Water Research</i> , 2021 , 201, 117286	12.5	1
6	Cross-continental importance of CH emissions from dry inland-waters. <i>Science of the Total Environment</i> , 2021 , 814, 151925	10.2	0
5	Eutrophication and Geochemistry Drive Pelagic Calcite Precipitation in Lakes. <i>Water (Switzerland)</i> , 2021 , 13, 597	3	0
4	Dissolved organic matter spectroscopy reveals a hot spot of organic matter changes at the river-reservoir boundary. <i>Aquatic Sciences</i> , 2021 , 83, 1	2.5	0
3	Reuniting biogeochemistry with ecology and evolution. <i>Science</i> , 2019 , 366, 805-806	33.3	
2	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		
1	Occurrence et devenir des polluants émergents (antibiotiques) dans un aquifère alluvial et leur influence sur les bactéries multi-résistantes (Bas-Fluvi) Catalogne). <i>Houille Blanche</i> , 2018 , 104, 47-52	0.3	