

# Andrea Butturini

## List of Publications by Citations

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56

papers

2,029

citations

28

h-index

44

g-index

59

ext. papers

2,321

ext. citations

4.8

avg. IF

4.65

L-index

#	Paper	IF	Citations
56	Nitrogen Removal by Riparian Buffers along a European Climatic Gradient: Patterns and Factors of Variation. <i>Ecosystems</i> , <b>2003</b> , 6, 0020-0030	3.9	180
55	The role of vegetation and litter in the nitrogen dynamics of riparian buffer zones in Europe. <i>Ecological Engineering</i> , <b>2005</b> , 24, 465-482	3.9	155
54	Water table fluctuations in the riparian zone: comparative results from a pan-European experiment. <i>Journal of Hydrology</i> , <b>2002</b> , 265, 129-148	6	121
53	Effects of riparian vegetation removal on nutrient retention in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , <b>2000</b> , 19, 609-620		111
52	Seasonal Variations of Dissolved Nitrogen and DOC:DON Ratios in an Intermittent Mediterranean Stream. <i>Biogeochemistry</i> , <b>2005</b> , 75, 351-372	3.8	85
51	Testing a climato-topographic index for predicting wetlands distribution along an European climate gradient. <i>Ecological Modelling</i> , <b>2003</b> , 163, 51-71	3	79
50	Diversity and temporal sequences of forms of DOC and NO <sub>3</sub> -discharge responses in an intermittent stream: Predictable or random succession?. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		76
49	Dissolved organic matter composition in a fragmented Mediterranean fluvial system under severe drought conditions. <i>Biogeochemistry</i> , <b>2011</b> , 102, 59-72	3.8	69
48	Microbial availability and size fractionation of dissolved organic carbon after drought in an intermittent stream: biogeochemical link across the stream-riparian interface. <i>Microbial Ecology</i> , <b>2006</b> , 52, 501-12	4.4	68
47	River ecosystem processes: A synthesis of approaches, criteria of use and sensitivity to environmental stressors. <i>Science of the Total Environment</i> , <b>2017</b> , 596-597, 465-480	10.2	66
46	Organic matter availability during pre- and post-drought periods in a Mediterranean stream. <i>Hydrobiologia</i> , <b>2010</b> , 657, 217-232	2.4	66
45	Ammonium and phosphate retention in a Mediterranean stream: hydrological versus temperature control. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , <b>1998</b> , 55, 1938-1945	2.4	64
44	Variability of DOC and nitrate responses to storms in a small Mediterranean forested catchment. <i>Hydrology and Earth System Sciences</i> , <b>2002</b> , 6, 1031-1041	5.5	59
43	Stream hydrological fragmentation drives bacterioplankton community composition. <i>PLoS ONE</i> , <b>2013</b> , 8, e64109	3.7	47
42	Nitrification in stream sediment biofilms: the role of ammonium concentration and DOC quality. <i>Water Research</i> , <b>2000</b> , 34, 629-639	12.5	46
41	Seasonal variability of dissolved organic carbon in a Mediterranean stream. <i>Biogeochemistry</i> , <b>2000</b> , 51, 303-321	3.8	42
40	Importance of transient storage zones for ammonium and phosphate retention in a sandy-bottom Mediterranean stream. <i>Freshwater Biology</i> , <b>1999</b> , 41, 593-603	3.1	41

39	Sediment microbial communities rely on different dissolved organic matter sources along a Mediterranean river continuum. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 1389-1405	4.8	39
38	Hydrological conditions regulate dissolved organic matter quality in an intermittent headwater stream. From drought to storm analysis. <i>Science of the Total Environment</i> , <b>2016</b> , 571, 1358-69	10.2	39
37	Effects of the Dry-Wet Hydrological Shift on Dissolved Organic Carbon Dynamics and Fate Across Stream Riparian Interface in a Mediterranean Catchment. <i>Ecosystems</i> , <b>2007</b> , 10, 239-251	3.9	38
36	Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. <i>Science of the Total Environment</i> , <b>2017</b> , 599-600, 1802-1812	10.2	35
35	Heterotrophic metabolism in a forest stream sediment: surface versus subsurface zones. <i>Aquatic Microbial Ecology</i> , <b>1998</b> , 16, 143-151	1.1	34
34	Immobilization and metabolism of dissolved organic carbon by natural sediment biofilms in a Mediterranean and temperate stream. <i>Aquatic Microbial Ecology</i> , <b>1999</b> , 19, 297-305	1.1	33
33	Nitrogen processes in aquatic ecosystems	126-146	32
32	Inferring nitrate sources through end member mixing analysis in an intermittent Mediterranean stream. <i>Biogeochemistry</i> , <b>2006</b> , 81, 269-289	3.8	32
31	The effects of sediment depth and oxygen concentration on the use of organic matter: An experimental study using an infiltration sediment tank. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 20-31	10.2	31
30	Biogeochemistry and biodiversity in a network of saline-alkaline lakes: Implications of ecohydrological connectivity in the Kenyan Rift Valley. <i>Ecohydrology and Hydrobiology</i> , <b>2018</b> , 18, 96-106	2.8	30
29	Wood and leaf debris input in a Mediterranean stream: The influence of riparian vegetation. <i>Fundamental and Applied Limnology</i> , <b>2001</b> , 153, 91-102	1.9	28
28	Deconvolution model to resolve cytometric microbial community patterns in flowing waters. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , <b>2018</b> , 93, 194-200	4.6	24
27	Hydrological conditions control in situ DOM retention and release along a Mediterranean river. <i>Water Research</i> , <b>2016</b> , 99, 33-45	12.5	22
26	Modeling storm events to investigate the influence of the stream-catchment interface zone on stream biogeochemistry. <i>Water Resources Research</i> , <b>2005</b> , 41,	5.4	22
25	Hydrological connectivity drives dissolved organic matter processing in an intermittent stream. <i>Limnologica</i> , <b>2018</b> , 68, 71-81	2	20
24	Effects of removal of riparian vegetation on algae and heterotrophs in a Mediterranean stream. <i>Hydrobiologia</i> , <b>1997</b> , 6, 129-140		19
23	Factors limiting denitrification in a Mediterranean riparian forest. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 2685-2688	7.5	18
22	Self-organising maps and correlation analysis as a tool to explore patterns in excitation-emission matrix data sets and to discriminate dissolved organic matter fluorescence components. <i>PLoS ONE</i> , <b>2014</b> , 9, e99618	3.7	17

21	Dissolved organic matter in a tropical saline-alkaline lake of the East African Rift Valley. <i>Water Research</i> , <b>2020</b> , 173, 115532	12.5	16
20	Impact of drying/rewetting cycles on the bioavailability of dissolved organic matter molecular-weight fractions in a Mediterranean stream. <i>Freshwater Science</i> , <b>2015</b> , 34, 263-275	2	15
19	Experimental evidence reveals impact of drought periods on dissolved organic matter quality and ecosystem metabolism in subalpine streams. <i>Limnology and Oceanography</i> , <b>2019</b> , 64, 46-60	4.8	12
18	The interruption of longitudinal hydrological connectivity causes delayed responses in dissolved organic matter. <i>Science of the Total Environment</i> , <b>2020</b> , 713, 136619	10.2	11
17	Responses of microbial activity in hyporheic pore water to biogeochemical changes in a drying headwater stream. <i>Freshwater Biology</i> , <b>2019</b> , 64, 735-749	3.1	10
16	El Niño southern oscillation and seasonal drought drive riparian input dynamics in a Mediterranean stream. <i>Limnology and Oceanography</i> , <b>2016</b> , 61, 214-226	4.8	9
15	Modelling the inorganic nitrogen behaviour in a small Mediterranean forested catchment, Fuirosos (Catalonia). <i>Hydrology and Earth System Sciences</i> , <b>2010</b> , 14, 223-237	5.5	9
14	A comparison between pulse and constant rate additions as methods for the estimation of nutrient uptake efficiency in-streams. <i>Journal of Hydrology</i> , <b>2010</b> , 388, 273-279	6	8
13	Comparison of organic matter in intermittent and perennial rivers of Mediterranean Chile with the support of citizen science. <i>Revista Chilena De Historia Natural</i> , <b>2019</b> , 92,	1.8	7
12	Retention and release of nutrients and dissolved organic carbon in a nutrient-rich stream: A mass balance approach. <i>Journal of Hydrology</i> , <b>2018</b> , 566, 795-806	6	7
11	Fluvial biofilms from upper and lower river reaches respond differently to wastewater treatment plant inputs. <i>Hydrobiologia</i> , <b>2016</b> , 765, 169-183	2.4	6
10	Characterization and qualitative changes in DOM chemical characteristics related to hydrologic conditions in a Pampean stream. <i>Hydrobiologia</i> , <b>2018</b> , 808, 201-217	2.4	6
9	Technical Note: Dissolved organic matter fluorescence by a finite mixture approach to deconvolve excitation-emission matrices. <i>Biogeosciences</i> , <b>2013</b> , 10, 5875-5887	4.6	5
8	High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water. <i>Communications Biology</i> , <b>2021</b> , 4, 845	6.7	5
7	Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river. <i>Hydrobiologia</i> , <b>2019</b> , 828, 199-212	2.4	4
6	Uncertainty of solute flux estimation in ungauged small streams: potential implications for input-output nutrient mass balances at stream reach scale. <i>Hydrology and Earth System Sciences</i> , <b>2005</b> , 9, 675-684	5.5	2
5	Dissolved organic matter variability along an impacted intermittent Mediterranean river <b>2019</b> , 38, 555-573		2
4	Different microbial functioning in natural versus man-made Mediterranean coastal lagoons in relation to season. <i>Estuarine, Coastal and Shelf Science</i> , <b>2021</b> , 259, 107434	2.9	2

- 3 Organic matter availability during pre- and post-drought periods in a Mediterranean stream **2010**, 217-232 1
- 2 Dissolved Organic Matter in Continental Hydro-Geothermal Systems: Insights from Two Hot Springs of the East African Rift Valley. *Water (Switzerland)*, **2020**, 12, 3512 3 0
- 1 Release of dissolved organic matter (DOM) in an autotrophic and productive stream in Pampean region. *Hydrobiologia*, **2020**, 847, 2279-2293 2.4 0