Andrea Butturini

List of Publications by Year in Descending Order

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	High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water. *Communications Biology*, **2021**, 4, 845	6.7	5
55	Different microbial functioning in natural versus man-made Mediterranean coastal lagoons in relation to season. *Estuarine, Coastal and Shelf Science*, **2021**, 259, 107434	2.9	2
54	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
53	The interruption of longitudinal hydrological connectivity causes delayed responses in dissolved organic matter. *Science of the Total Environment*, **2020**, 713, 136619	10.2	11
52	Dissolved organic matter in a tropical saline-alkaline lake of the East African Rift Valley. *Water Research*, **2020**, 173, 115532	12.5	16
51	Release of dissolved organic matter (DOM) in an autotrophic and productive stream in Pampean region. *Hydrobiologia*, **2020**, 847, 2279-2293	2.4	0
50	Responses of microbial activity in hyporheic pore water to biogeochemical changes in a drying headwater stream. *Freshwater Biology*, **2019**, 64, 735-749	3.1	10
49	Experimental evidence reveals impact of drought periods on dissolved organic matter quality and ecosystem metabolism in subalpine streams. *Limnology and Oceanography*, **2019**, 64, 46-60	4.8	12
48	Comparison of organic matter in intermittent and perennial rivers of Mediterranean Chile with the support of citizen science. *Revista Chilena De Historia Natural*, **2019**, 92,	1.8	7
47	Dissolved organic matter variability along an impacted intermittent Mediterranean river **2019**, 38, 555-573		2
46	Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river. *Hydrobiologia*, **2019**, 828, 199-212	2.4	4
45	Deconvolution model to resolve cytometric microbial community patterns in flowing waters. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2018**, 93, 194-200	4.6	24
44	Hydrological connectivity drives dissolved organic matter processing in an intermittent stream. *Limnologica*, **2018**, 68, 71-81	2	20
43	Biogeochemistry and biodiversity in a network of saline–alkaline lakes: Implications of ecohydrological connectivity in the Kenyan Rift Valley. *Ecohydrology and Hydrobiology*, **2018**, 18, 96-106	2.8	30
42	Characterization and qualitative changes in DOM chemical characteristics related to hydrologic conditions in a Pampean stream. *Hydrobiologia*, **2018**, 808, 201-217	2.4	6
41	Retention and release of nutrients and dissolved organic carbon in a nutrient-rich stream: A mass balance approach. *Journal of Hydrology*, **2018**, 566, 795-806	6	7
40	River ecosystem processes: A synthesis of approaches, criteria of use and sensitivity to environmental stressors. *Science of the Total Environment*, **2017**, 596-597, 465-480	10.2	66

39	Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. *Science of the Total Environment*, **2017**, 599-600, 1802-1812	10.2	35
38	The effects of sediment depth and oxygen concentration on the use of organic matter: An experimental study using an infiltration sediment tank. *Science of the Total Environment*, **2016**, 540, 20-31	10.2	31
37	Hydrological conditions control in situ DOM retention and release along a Mediterranean river. *Water Research*, **2016**, 99, 33-45	12.5	22
36	El Niño southern oscillation and seasonal drought drive riparian input dynamics in a Mediterranean stream. *Limnology and Oceanography*, **2016**, 61, 214-226	4.8	9
35	Fluvial biofilms from upper and lower river reaches respond differently to wastewater treatment plant inputs. *Hydrobiologia*, **2016**, 765, 169-183	2.4	6
34	Sediment microbial communities rely on different dissolved organic matter sources along a Mediterranean river continuum. *Limnology and Oceanography*, **2016**, 61, 1389-1405	4.8	39
33	Hydrological conditions regulate dissolved organic matter quality in an intermittent headwater stream. From drought to storm analysis. *Science of the Total Environment*, **2016**, 571, 1358-69	10.2	39
32	Impact of drying/rewetting cycles on the bioavailability of dissolved organic matter molecular-weight fractions in a Mediterranean stream. *Freshwater Science*, **2015**, 34, 263-275	2	15
31	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. *PLoS ONE*, **2014**, 9, e99618	3.7	17
30	Technical Note: Dissolved organic matter fluorescence – a finite mixture approach to deconvolve excitation-emission matrices. *Biogeosciences*, **2013**, 10, 5875-5887	4.6	5
29	Stream hydrological fragmentation drives bacterioplankton community composition. *PLoS ONE*, **2013**, 8, e64109	3.7	47
28	Dissolved organic matter composition in a fragmented Mediterranean fluvial system under severe drought conditions. *Biogeochemistry*, **2011**, 102, 59-72	3.8	69
27	Modelling the inorganic nitrogen behaviour in a small Mediterranean forested catchment, Fuirosos (Catalonia). *Hydrology and Earth System Sciences*, **2010**, 14, 223-237	5.5	9
26	Organic matter availability during pre- and post-drought periods in a Mediterranean stream. *Hydrobiologia*, **2010**, 657, 217-232	2.4	66
25	A comparison between pulse and constant rate additions as methods for the estimation of nutrient uptake efficiency in-streams. *Journal of Hydrology*, **2010**, 388, 273-279	6	8
24	Organic matter availability during pre- and post-drought periods in a Mediterranean stream **2010**, 217-232		1
23	Diversity and temporal sequences of forms of DOC and NO3-discharge responses in an intermittent stream: Predictable or random succession?. *Journal of Geophysical Research*, **2008**, 113,		76
22	Factors limiting denitrification in a Mediterranean riparian forest. *Soil Biology and Biochemistry*, **2007**, 39, 2685-2688	7.5	18

21	Effects of the Dry-Wet Hydrological Shift on Dissolved Organic Carbon Dynamics and Fate Across Stream-Riparian Interface in a Mediterranean Catchment. *Ecosystems*, **2007**, 10, 239-251	3.9	38
20	Microbial availability and size fractionation of dissolved organic carbon after drought in an intermittent stream: biogeochemical link across the stream-riparian interface. *Microbial Ecology*, **2006**, 52, 501-12	4.4	68
19	Inferring nitrate sources through end member mixing analysis in an intermittent Mediterranean stream. *Biogeochemistry*, **2006**, 81, 269-289	3.8	32
18	Modeling storm events to investigate the influence of the stream-catchment interface zone on stream biogeochemistry. *Water Resources Research*, **2005**, 41,	5.4	22
17	The role of vegetation and litter in the nitrogen dynamics of riparian buffer zones in Europe. *Ecological Engineering*, **2005**, 24, 465-482	3.9	155
16	Seasonal Variations of Dissolved Nitrogen and DOC:DON Ratios in an Intermittent Mediterranean Stream. *Biogeochemistry*, **2005**, 75, 351-372	3.8	85
15	Uncertainty of solute flux estimation in ungauged small streams: potential implications for input-output nutrient mass balances at stream reach scale. *Hydrology and Earth System Sciences*, **2005**, 9, 675-684	5.5	2
14	Nitrogen Removal by Riparian Buffers along a European Climatic Gradient: Patterns and Factors of Variation. *Ecosystems*, **2003**, 6, 0020-0030	3.9	180
13	Testing a climato-topographic index for predicting wetlands distribution along an European climate gradient. *Ecological Modelling*, **2003**, 163, 51-71	3	79
12	Variability of DOC and nitrate responses to storms in a small Mediterranean forested catchment. *Hydrology and Earth System Sciences*, **2002**, 6, 1031-1041	5.5	59
11	Water table fluctuations in the riparian zone: comparative results from a pan-European experiment. *Journal of Hydrology*, **2002**, 265, 129-148	6	121
10	Wood and leaf debris input in a Mediterranean stream: The influence of riparian vegetation. *Fundamental and Applied Limnology*, **2001**, 153, 91-102	1.9	28
9	Seasonal variability of dissolved organic carbon ina Mediterranean stream. *Biogeochemistry*, **2000**, 51, 303-321	3.8	42
8	Effects of riparian vegetation removal on nutrient retention in a Mediterranean stream. *Journal of the North American Benthological Society*, **2000**, 19, 609-620		111
7	Nitrification in stream sediment biofilms: the role of ammonium concentration and DOC quality. *Water Research*, **2000**, 34, 629-639	12.5	46
6	Importance of transient storage zones for ammonium and phosphate retention in a sandy-bottom Mediterranean stream. *Freshwater Biology*, **1999**, 41, 593-603	3.1	41
5	Immobilization and metabolism of dissolved organic carbon by natural sediment biofilms in a Mediterranean and temperate stream. *Aquatic Microbial Ecology*, **1999**, 19, 297-305	1.1	33
4	Ammonium and phosphate retention in a Mediterranean stream: hydrological versus temperature control. *Canadian Journal of Fisheries and Aquatic Sciences*, **1998**, 55, 1938-1945	2.4	64

List of Publications

3	Heterotrophic metabolism in a forest stream sediment: surface versus subsurface zones. *Aquatic Microbial Ecology*, **1998**, 16, 143-151	1.1	34
2	Effects of removal of riparian vegetation on algae and heterotrophs in a Mediterranean stream. *Hydrobiologia*, **1997**, 6, 129-140		19
1	Nitrogen processes in aquatic ecosystems126-146		32