

# Andrea Butturini

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

2,595  
citations

172207

29  
h-index

197535

49  
g-index

59  
all docs

59  
docs citations

59  
times ranked

2962  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen Removal by Riparian Buffers along a European Climatic Gradient: Patterns and Factors of Variation. <i>Ecosystems</i> , 2003, 6, 0020-0030.	1.6	214
2	The role of vegetation and litter in the nitrogen dynamics of riparian buffer zones in Europe. <i>Ecological Engineering</i> , 2005, 24, 465-482.	1.6	186
3	Water table fluctuations in the riparian zone: comparative results from a pan-European experiment. <i>Journal of Hydrology</i> , 2002, 265, 129-148.	2.3	148
4	Effects of riparian vegetation removal on nutrient retention in a Mediterranean stream. <i>Journal of the North American Benthological Society</i> , 2000, 19, 609-620.	3.0	136
5	River ecosystem processes: A synthesis of approaches, criteria of use and sensitivity to environmental stressors. <i>Science of the Total Environment</i> , 2017, 596-597, 465-480.	3.9	102
6	Seasonal Variations of Dissolved Nitrogen and DOC:DON Ratios in an Intermittent Mediterranean Stream. <i>Biogeochemistry</i> , 2005, 75, 351-372.	1.7	100
7	Testing a climato-topographic index for predicting wetlands distribution along an European climate gradient. <i>Ecological Modelling</i> , 2003, 163, 51-71.	1.2	96
8	Diversity and temporal sequences of forms of DOC and NO <sub>3</sub> <sup>-</sup> discharge responses in an intermittent stream: Predictable or random succession?. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	92
9	Dissolved organic matter composition in a fragmented Mediterranean fluvial system under severe drought conditions. <i>Biogeochemistry</i> , 2011, 102, 59-72.	1.7	82
10	Ammonium and phosphate retention in a Mediterranean stream: hydrological versus temperature control. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 1998, 55, 1938-1945.	0.7	81
11	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> , 2006, 52, 501-512.	1.4	75
12	Organic matter availability during pre- and post-drought periods in a Mediterranean stream. <i>Hydrobiologia</i> , 2010, 657, 217-232.	1.0	72
13	Variability of DOC and nitrate responses to storms in a small Mediterranean forested catchment. <i>Hydrology and Earth System Sciences</i> , 2002, 6, 1031-1041.	1.9	69
14	Stream Hydrological Fragmentation Drives Bacterioplankton Community Composition. <i>PLoS ONE</i> , 2013, 8, e64109.	1.1	58
15	Sediment microbial communities rely on different dissolved organic matter sources along a Mediterranean river continuum. <i>Limnology and Oceanography</i> , 2016, 61, 1389-1405.	1.6	58
16	Hydrological conditions regulate dissolved organic matter quality in an intermittent headwater stream. From drought to storm analysis. <i>Science of the Total Environment</i> , 2016, 571, 1358-1369.	3.9	57
17	Seasonal variability of dissolved organic carbon in a Mediterranean stream. <i>Biogeochemistry</i> , 2000, 51, 303-321.	1.7	52
18	Importance of transient storage zones for ammonium and phosphate retention in a sandy-bottom Mediterranean stream. <i>Freshwater Biology</i> , 1999, 41, 593-603.	1.2	49

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19	Nitrification in stream sediment biofilms: the role of ammonium concentration and DOC quality. <i>Water Research</i> , 2000, 34, 629-639.	5.3	49
20	Quality and reactivity of dissolved organic matter in a Mediterranean river across hydrological and spatial gradients. <i>Science of the Total Environment</i> , 2017, 599-600, 1802-1812.	3.9	47
21	Immobilization and metabolism of dissolved organic carbon by natural sediment biofilms in a Mediterranean and temperate stream. <i>Aquatic Microbial Ecology</i> , 1999, 19, 297-305.	0.9	47
22	Nitrogen processes in aquatic ecosystems. , 2011, , 126-146.		46
23	Heterotrophic metabolism in a forest stream sediment: surface versus subsurface zones. <i>Aquatic Microbial Ecology</i> , 1998, 16, 143-151.	0.9	43
24	Biogeochemistry and biodiversity in a network of saline-alkaline lakes: Implications of ecohydrological connectivity in the Kenyan Rift Valley. <i>Ecohydrology and Hydrobiology</i> , 2018, 18, 96-106.	1.0	41
25	Inferring nitrate sources through end member mixing analysis in an intermittent Mediterranean stream. <i>Biogeochemistry</i> , 2006, 81, 269-289.	1.7	40
26	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> , 2007, 10, 239-251.	1.6	39
27	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> , 2016, 540, 20-31.	3.9	37
28	Hydrological conditions control in situ DOM retention and release along a Mediterranean river. <i>Water Research</i> , 2016, 99, 33-45.	5.3	34
29	Hydrological connectivity drives dissolved organic matter processing in an intermittent stream. <i>Limnologia</i> , 2018, 68, 71-81.	0.7	34
30	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> , 2018, 93, 194-200.	1.1	33
31	Wood and leaf debris input in a Mediterranean stream: The influence of riparian vegetation. <i>Fundamental and Applied Limnology</i> , 2001, 153, 91-102.	0.4	33
32	Dissolved organic matter in a tropical saline-alkaline lake of the East African Rift Valley.. <i>Water Research</i> , 2020, 173, 115532.	5.3	29
33	Experimental evidence reveals impact of drought periods on dissolved organic matter quality and ecosystem metabolism in subalpine streams. <i>Limnology and Oceanography</i> , 2019, 64, 46-60.	1.6	26
34	High concentrations of dissolved biogenic methane associated with cyanobacterial blooms in East African lake surface water. <i>Communications Biology</i> , 2021, 4, 845.	2.0	26
35	Effects of removal of riparian vegetation on algae and heterotrophs in a Mediterranean stream. <i>Hydrobiologia</i> , 1997, 6, 129-140.	1.0	25
36	Modeling storm events to investigate the influence of the stream-catchment interface zone on stream biogeochemistry. <i>Water Resources Research</i> , 2005, 41, .	1.7	24

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37	Responses of microbial activity in hyporheic pore water to biogeochemical changes in a drying headwater stream. <i>Freshwater Biology</i> , 2019, 64, 735-749.	1.2	24
38	Factors limiting denitrification in a Mediterranean riparian forest. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2685-2688.	4.2	23
39	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> , 2014, 9, e99618.	1.1	21
40	The interruption of longitudinal hydrological connectivity causes delayed responses in dissolved organic matter. <i>Science of the Total Environment</i> , 2020, 713, 136619.	3.9	18
41	Impact of drying/rewetting cycles on the bioavailability of dissolved organic matter molecular-weight fractions in a Mediterranean stream. <i>Freshwater Science</i> , 2015, 34, 263-275.	0.9	17
42	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
43	Retention and release of nutrients and dissolved organic carbon in a nutrient-rich stream: A mass balance approach. <i>Journal of Hydrology</i> , 2018, 566, 795-806.	2.3	11
44	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> , 2019, 92, .	0.5	11
45	A comparison between pulse and constant rate additions as methods for the estimation of nutrient uptake efficiency in-streams. <i>Journal of Hydrology</i> , 2010, 388, 273-279.	2.3	10
46	Modelling the inorganic nitrogen behaviour in a small Mediterranean forested catchment, Fuirosos (Catalonia). <i>Hydrology and Earth System Sciences</i> , 2010, 14, 223-237.	1.9	10
47	Fluvial biofilms from upper and lower river reaches respond differently to wastewater treatment plant inputs. <i>Hydrobiologia</i> , 2016, 765, 169-183.	1.0	8
48	Characterization and qualitative changes in DOM chemical characteristics related to hydrologic conditions in a Pampean stream. <i>Hydrobiologia</i> , 2018, 808, 201-217.	1.0	8
49	Dissolved Organic Matter in Continental Hydro-Geothermal Systems: Insights from Two Hot Springs of the East African Rift Valley. <i>Water (Switzerland)</i> , 2020, 12, 3512.	1.2	7
50	Different microbial functioning in natural versus man-made Mediterranean coastal lagoons in relation to season. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 259, 107434.	0.9	7
51	Technical Note: Dissolved organic matter fluorescence – a finite mixture approach to deconvolve excitation-emission matrices. <i>Biogeosciences</i> , 2013, 10, 5875-5887.	1.3	6
52	Interplay between sediment properties and stream flow conditions influences surface sediment organic matter and microbial biomass in a Mediterranean river. <i>Hydrobiologia</i> , 2019, 828, 199-212.	1.0	6
53	Fuirosos stream (NE Iberian Peninsula): for how much longer?. , 2021, 40, 205-222.		4
54	Dissolved organic matter variability along an impacted intermittent Mediterranean river. , 2019, 38, 555-573.		4

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55	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> , 2005, 9, 675-684.	1.9	3
56	Geochemical characterization of an urban lake in the centre of Rome (Lake Bullicante, Italy). <i>Italian Journal of Geosciences</i> , 2020, 139, 436-449.	0.4	2
57	Release of dissolved organic matter (DOM) in an autotrophic and productive stream in Pampean region. <i>Hydrobiologia</i> , 2020, 847, 2279-2293.	1.0	1
58	Organic matter availability during pre- and post-drought periods in a Mediterranean stream. , 2010, , 217-232.		1