

# Susana Bernal

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5614970/publications.pdf>

Version: 2024-02-01

70  
papers

2,297  
citations

236925

25  
h-index

243625

44  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2842  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water table elevation controls on soil nitrogen cycling in riparian wetlands along a European climatic gradient. <i>Biogeochemistry</i> , 2004, 67, 113-134.	3.5	253
2	Complex response of the forest nitrogen cycle to climate change. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3406-3411.	7.1	130
3	Influences of the stream groundwater hydrology on nitrate concentration in unsaturated riparian area bounded by an intermittent Mediterranean stream. <i>Water Resources Research</i> , 2003, 39, .	4.2	102
4	Seasonal Variations of Dissolved Nitrogen and DOC:DON Ratios in an Intermittent Mediterranean Stream. <i>Biogeochemistry</i> , 2005, 75, 351-372.	3.5	100
5	River network saturation concept: factors influencing the balance of biogeochemical supply and demand of river networks. <i>Biogeochemistry</i> , 2018, 141, 503-521.	3.5	96
6	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> , 2008, 113, .	3.3	92
7	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. <i>Hydrobiologia</i> , 2013, 719, 31-42.	2.0	84
8	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.	4.9	69
9	Temperature controls production but hydrology regulates export of dissolved organic carbon at the catchment scale. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 945-966.	4.9	64
10	The influence of riparian-hyporheic zone on the hydrological responses in an intermittent stream. <i>Hydrology and Earth System Sciences</i> , 2002, 6, 515-526.	4.9	62
11	Watershed "chemical cocktails": forming novel elemental combinations in Anthropocene fresh waters. <i>Biogeochemistry</i> , 2018, 141, 281-305.	3.5	62
12	Riparian Corridors: A New Conceptual Framework for Assessing Nitrogen Buffering Across Biomes. <i>Frontiers in Environmental Science</i> , 2018, 6, .	3.3	62
13	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.	9.1	54
14	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams. , 2017, , 135-160.		52
15	Spatial variability of the relationships of runoff and sediment yield with weather types throughout the Mediterranean basin. <i>Journal of Hydrology</i> , 2019, 571, 390-405.	5.4	49
16	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.	4.9	44
17	Riparian and in-stream controls on nutrient concentrations and fluxes in a headwater forested stream. <i>Biogeosciences</i> , 2015, 12, 1941-1954.	3.3	41
18	Inferring nitrate sources through end member mixing analysis in an intermittent Mediterranean stream. <i>Biogeochemistry</i> , 2006, 81, 269-289.	3.5	40

#	ARTICLE	IF	CITATIONS
19	Modelling the non-linear hydrological behaviour of a small Mediterranean forested catchment. <i>Hydrological Processes</i> , 2008, 22, 3814-3828.	2.6	35
20	Green light: gross primary production influences seasonal stream N export by controlling fine-scale N dynamics. <i>Ecology</i> , 2016, 97, 133-144.	3.2	35
21	Leaf Litter Dynamics and Nitrous Oxide Emission in a Mediterranean Riparian Forest. <i>Journal of Environmental Quality</i> , 2003, 32, 191-197.	2.0	34
22	Calibration of the INCA model in a Mediterranean forested catchment: the effect of hydrological inter-annual variability in an intermittent stream. <i>Hydrology and Earth System Sciences</i> , 2004, 8, 729-741.	4.9	33
23	Wood and leaf debris input in a Mediterranean stream: The influence of riparian vegetation. <i>Fundamental and Applied Limnology</i> , 2001, 153, 91-102.	0.7	33
24	In-stream net uptake regulates inorganic nitrogen export from catchments under base flow conditions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
25	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. <i>Freshwater Science</i> , 2015, 34, 20-30.	1.8	28
26	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. <i>Freshwater Science</i> , 2016, 35, 1176-1188.	1.8	27
27	Organizational Principles of Hyporheic Exchange Flow and Biogeochemical Cycling in River Networks Across Scales. <i>Water Resources Research</i> , 2022, 58, .	4.2	26
28	Modeling storm events to investigate the influence of the stream-catchment interface zone on stream biogeochemistry. <i>Water Resources Research</i> , 2005, 41, .	4.2	24
29	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. <i>Biogeosciences</i> , 2011, 8, 875-882.	3.3	24
30	Decoupling of dissolved organic matter patterns between stream and riparian groundwater in a headwater forested catchment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 1897-1910.	4.9	24
31	Supply, Demand, and In-Stream Retention of Dissolved Organic Carbon and Nitrate During Storms in Mediterranean Forested Headwater Streams. <i>Frontiers in Environmental Science</i> , 2019, 7, .	3.3	24
32	Towards an improved understanding of biogeochemical processes across surface-groundwater interactions in intermittent rivers and ephemeral streams. <i>Earth-Science Reviews</i> , 2021, 220, 103724.	9.1	24
33	Factors limiting denitrification in a Mediterranean riparian forest. <i>Soil Biology and Biochemistry</i> , 2007, 39, 2685-2688.	8.8	23
34	Gradients of Anthropogenic Nutrient Enrichment Alter N Composition and DOM Stoichiometry in Freshwater Ecosystems. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB006953.	4.9	22
35	Shifting stoichiometry: Long-term trends in stream dissolved organic matter reveal altered C:N ratios due to history of atmospheric acid deposition. <i>Global Change Biology</i> , 2022, 28, 98-114.	9.5	22
36	Changes in discharge and solute dynamics between hillslope and valley-bottom intermittent streams. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 1595-1605.	4.9	21

#	ARTICLE	IF	CITATIONS
37	The influence of riparian evapotranspiration on stream hydrology and nitrogen retention in a subhumid Mediterranean catchment. <i>Hydrology and Earth System Sciences</i> , 2016, 20, 3831-3842.	4.9	21
38	Photoinhibition on natural ammonia oxidizers biofilm populations and implications for nitrogen uptake in stream biofilms. <i>Limnology and Oceanography</i> , 2017, 62, 364-375.	3.1	21
39	Stepping Out of the Ivory Tower for Ocean Literacy. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	20
40	Leachates from Helophyte Leaf-Litter Enhance Nitrogen Removal from Wastewater Treatment Plant Effluents. <i>Environmental Science &amp; Technology</i> , 2019, 53, 7613-7620.	10.0	19
41	Diverse water quality responses to extreme climate events: an introduction. <i>Biogeochemistry</i> , 2018, 141, 273-279.	3.5	17
42	Leaf Litter Dynamics and Nitrous Oxide Emission in a Mediterranean Riparian Forest. <i>Journal of Environmental Quality</i> , 2003, 32, 191.	2.0	16
43	Enhancement of carbon and nitrogen removal by helophytes along subsurface water flowpaths receiving treated wastewater. <i>Science of the Total Environment</i> , 2017, 599-600, 1667-1676.	8.0	16
44	Wastewater treatment plant effluent inputs induce large biogeochemical changes during low flows in an intermittent stream but small changes in day-night patterns. <i>Science of the Total Environment</i> , 2020, 714, 136733.	8.0	16
45	Contribution of pulses of soil nitrogen mineralization and nitrification to soil nitrogen availability in three Mediterranean forests. <i>European Journal of Soil Science</i> , 2016, 67, 303-313.	3.9	15
46	The role of lithology, catchment size and the alluvial zone on the hydrogeochemistry of two intermittent Mediterranean streams. <i>Hydrological Processes</i> , 2008, 22, 1407-1418.	2.6	14
47	Climate response of the soil nitrogen cycle in three forest types of a headwater Mediterranean catchment. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 859-875.	3.0	13
48	Relationship of Weather Types on the Seasonal and Spatial Variability of Rainfall, Runoff, and Sediment Yield in the Western Mediterranean Basin. <i>Atmosphere</i> , 2020, 11, 609.	2.3	13
49	Riparian evapotranspiration is essential to simulate streamflow dynamics and water budgets in a Mediterranean catchment. <i>Hydrology and Earth System Sciences</i> , 2018, 22, 4033-4045.	4.9	11
50	Modelling the inorganic nitrogen behaviour in a small Mediterranean forested catchment, Fuirosos (Catalonia). <i>Hydrology and Earth System Sciences</i> , 2010, 14, 223-237.	4.9	10
51	The role of helophyte species on nitrogen and phosphorus retention from wastewater treatment plant effluents. <i>Journal of Environmental Management</i> , 2019, 252, 109585.	7.8	10
52	Towards women-inclusive ecology: Representation, behavior, and perception of women at an international conference. <i>PLoS ONE</i> , 2021, 16, e0260163.	2.5	10
53	Interactions between microplastics and benthic biofilms in fluvial ecosystems: Knowledge gaps and future trends. <i>Freshwater Science</i> , 2022, 41, 442-458.	1.8	10
54	Exploring the long-term response of undisturbed Mediterranean catchments to changes in atmospheric inputs through time series analysis. <i>Science of the Total Environment</i> , 2013, 458-460, 535-545.	8.0	9

#	ARTICLE	IF	CITATIONS
55	Stream network variation in dissolved oxygen: Metabolism proxies and biogeochemical controls. <i>Ecological Indicators</i> , 2021, 131, 108233.	6.3	9
56	The influence of the invasive alien nitrogen-fixing <i>Robinia pseudoacacia</i> L. on soil nitrogen availability in a mixed Mediterranean riparian forest. <i>European Journal of Forest Research</i> , 2019, 138, 1083-1093.	2.5	8
57	Effect of Three Emergent Macrophyte Species on Nutrient Retention in Aquatic Environments under Excess Nutrient Loading. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15376-15384.	10.0	8
58	Residence Time in Hyporheic Bioactive Layers Explains Nitrate Uptake in Streams. <i>Water Resources Research</i> , 2021, 57, e2020WR027646.	4.2	8
59	Differences in ammonium oxidizer abundance and N uptake capacity between epilithic and epipsammic biofilms in an urban stream. <i>Freshwater Science</i> , 2018, 37, 13-22.	1.8	7
60	Microbial uptake of nitrogen and carbon from the water column by litter-associated microbes differs among litter species. <i>Limnology and Oceanography</i> , 2020, 65, 1891-1902.	3.1	7
61	Advancing river corridor science beyond disciplinary boundaries with an inductive approach to catalyse hypothesis generation. <i>Hydrological Processes</i> , 2022, 36, .	2.6	7
62	Influence of Dissolved Organic Matter Sources on In-Stream Net Dissolved Organic Carbon Uptake in a Mediterranean Stream. <i>Water (Switzerland)</i> , 2020, 12, 1722.	2.7	6
63	Day-night ammonium oxidation in an urban stream: the influence of irradiance on ammonia oxidizers. <i>Freshwater Science</i> , 2017, 36, 272-283.	1.8	4
64	Future changes in the Dominant Source Layer of riparian lateral water fluxes in a subhumid Mediterranean catchment. <i>Journal of Hydrology</i> , 2021, 595, 126014.	5.4	4
65	Nitrous Oxide Emissions From Drying Streams and Rivers. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	4
66	Wastewater treatment plant effluent inputs influence the temporal variability of nutrient uptake in an intermittent stream. <i>Urban Ecosystems</i> , 2022, 25, 1313-1326.	2.4	4
67	Hydrological responses to rainfall events including the extratropical cyclone <i>Gloria</i> in two contrasting Mediterranean headwaters in Spain; the perennial font del Regàs and the intermittent Fuirosos. <i>Hydrological Processes</i> , 2021, 35, .	2.6	3
68	The influence of Mediterranean riparian forests on stream nitrogen dynamics: a review from a catchment perspective. , 2017, , 507-523.		2
69	Hydromorphologic Control of Streambed Fine Particle Standing Stocks Influences In-stream Aerobic Respiration. <i>Frontiers in Water</i> , 2021, 3, .	2.3	1
70	Stream Hydrology Controls the Longitudinal Bioreactive Footprint of Urban-Sourced Fine Particles. <i>Environmental Science &amp; Technology</i> , 2022, 56, 9083-9091.	10.0	1