

# Daniel von Schiller

## List of Publications by Year in Descending Order

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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.

91  
papers

3,007  
citations

33  
h-index

52  
g-index

98  
ext. papers

3,605  
ext. citations

5.1  
avg, IF

5.14  
L-index

#	Paper	IF	Citations
91	Patterns and controls of carbon dioxide concentration and fluxes at the air-water interface in South American lowland streams. <i>Aquatic Sciences</i> , <b>2022</b> , 84, 1	2.5	0
90	Cross-continental importance of CH emissions from dry inland-waters. <i>Science of the Total Environment</i> , <b>2021</b> , 814, 151925	10.2	0
89	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , <b>2021</b> , 155, 381-400	3.8	3
88	Combined effects of urban pollution and hydrological stress on ecosystem functions of Mediterranean streams. <i>Science of the Total Environment</i> , <b>2021</b> , 753, 141971	10.2	9
87	Hydromorphologic Sorting of In-Stream Nitrogen Uptake Across Spatial Scales. <i>Ecosystems</i> , <b>2021</b> , 24, 1184-1202	3.9	1
86	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , <b>2021</b> , 66, 306-320	4.8	6
85	Interactive effects of discharge reduction and fine sediments on stream biofilm metabolism. <i>PLoS ONE</i> , <b>2021</b> , 16, e0246719	3.7	1
84	Towards an improved understanding of biogeochemical processes across surface-groundwater interactions in intermittent rivers and ephemeral streams. <i>Earth-Science Reviews</i> , <b>2021</b> , 220, 103724	10.2	9
83	Water diversion and pollution interactively shape freshwater food webs through bottom-up mechanisms. <i>Global Change Biology</i> , <b>2021</b> ,	11.4	2
82	Accounting for flow intermittency in environmental flows design. <i>Journal of Applied Ecology</i> , <b>2020</b> , 57, 742-753	5.8	16
81	Global CO emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , <b>2020</b> , 11, 2126	17.4	33
80	Impact of wastewater effluent pollution on stream functioning: A whole-ecosystem manipulation experiment. <i>Environmental Pollution</i> , <b>2020</b> , 258, 113719	9.3	13
79	Dynamics of ground-dwelling arthropod metacommunities in intermittent streams: The key role of dry riverbeds. <i>Biological Conservation</i> , <b>2020</b> , 241, 108328	6.2	7
78	Conservation and Management of Isolated Pools in Temporary Rivers. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 2870	3	10
77	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , <b>2020</b> , 34, e2019GB006495	5.9	12
76	Organic Matter Decomposition and Ecosystem Metabolism as Tools to Assess the Functional Integrity of Streams and Rivers: A Systematic Review. <i>Water (Switzerland)</i> , <b>2020</b> , 12, 3523	3	6
75	Uptake and trophic transfer of nitrogen and carbon in a temperate forested headwater stream. <i>Aquatic Sciences</i> , <b>2019</b> , 81, 1	2.5	3

74	Multiple stressor effects on biodiversity and ecosystem functioning in a Mediterranean temporary river. <i>Science of the Total Environment</i> , <b>2019</b> , 647, 1179-1187	10.2	29
73	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , <b>2019</b> , 33, 1251-1263	5.9	28
72	Multiple Stressors and Hydromorphological Degradation <b>2019</b> , 65-79		4
71	Immediate and legacy effects of urban pollution on river ecosystem functioning: A mesocosm experiment. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 169, 960-970	7	16
70	Emissions from dry inland waters are a blind spot in the global carbon cycle. <i>Earth-Science Reviews</i> , <b>2019</b> , 188, 240-248	10.2	51
69	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , <b>2019</b> , 25, 1591-1611	11.4	47
68	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. <i>Earth-Science Reviews</i> , <b>2019</b> , 188, 441-453	10.2	36
67	Contribution of Hydrologic Opportunity and Biogeochemical Reactivity to the Variability of Nutrient Retention in River Networks. <i>Global Biogeochemical Cycles</i> , <b>2018</b> , 32, 376-388	5.9	29
66	Dry habitats sustain high CO emissions from temporary ponds across seasons. <i>Scientific Reports</i> , <b>2018</b> , 8, 3015	4.9	22
65	Does the severity of non-flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. <i>Freshwater Biology</i> , <b>2018</b> , 63, 613-625	3.1	8
64	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , <b>2018</b> , 88, 120-138	9	43
63	Consumer-resource stoichiometry as a predictor of trophic discrimination ( $\delta^{13}C$ , $\delta^{15}N$ ) in aquatic invertebrates. <i>Freshwater Biology</i> , <b>2018</b> , 63, 1240-1249	3.1	14
62	Testing wastewater treatment plant effluent effects on microbial and detritivore performance: A combined field and laboratory experiment. <i>Aquatic Toxicology</i> , <b>2018</b> , 203, 159-171	5.1	7
61	Understanding the effects of predictability, duration, and spatial pattern of drying on benthic invertebrate assemblages in two contrasting intermittent streams. <i>PLoS ONE</i> , <b>2018</b> , 13, e0193933	3.7	12
60	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. <i>Limnologica</i> , <b>2018</b> , 68, 82-91	2	4
59	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , <b>2018</b> , 9, 2794	5.7	26
58	Effect of small water retention structures on diffusive CO <sub>2</sub> and CH <sub>4</sub> emissions along a highly impounded river. <i>Inland Waters</i> , <b>2018</b> , 8, 449-460	2.4	2
57	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. <i>Nature Geoscience</i> , <b>2018</b> , 11, 497-503	18.3	69

56	A tale of pipes and reactors: Controls on the in-stream dynamics of dissolved organic matter in rivers. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, S85-S94	4.8	58
55	Understanding pathways of dissimilatory and assimilatory dissolved inorganic nitrogen uptake in streams. <i>Limnology and Oceanography</i> , <b>2017</b> , 62, 1166-1183	4.8	25
54	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
53	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2017</b> , 122, 131-144	3.7	30
52	Drivers of nitrogen transfer in stream food webs across continents. <i>Ecology</i> , <b>2017</b> , 98, 3044-3055	4.6	10
51	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams <b>2017</b> , 135-160		33
50	Regulation causes nitrogen cycling discontinuities in Mediterranean rivers. <i>Science of the Total Environment</i> , <b>2016</b> , 540, 168-77	10.2	24
49	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> , <b>2016</b> , 121, 3030-3044	3.7	13
48	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , <b>2016</b> , 35, 1133-1147	2	10
47	Responses of ground-dwelling arthropods to surface flow drying in channels and adjacent habitats along Mediterranean streams. <i>Ecohydrology</i> , <b>2016</b> , 9, 1376-1387	2.5	17
46	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , <b>2016</b> , 19, 710-723	3.9	54
45	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. <i>Environmental Pollution</i> , <b>2016</b> , 210, 121-8	9.3	106
44	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. <i>Biogeochemistry</i> , <b>2016</b> , 127, 125-139	3.8	27
43	One for All, All for One: A Global River Research Network. <i>Eos</i> , <b>2016</b> , 97,	1.5	10
42	Stream drying drives microbial ammonia oxidation and first-flush nitrate export. <i>Ecology</i> , <b>2016</b> , 97, 2192-2198	4.6	25
41	Attenuation of pharmaceuticals and their transformation products in a wastewater treatment plant and its receiving river ecosystem. <i>Water Research</i> , <b>2016</b> , 100, 126-136	12.5	66
40	Flow regulation increases food-chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , <b>2016</b> , 61, 1536-1549	3.1	20
39	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. <i>Freshwater Science</i> , <b>2016</b> , 35, 1176-1188	2	20

38	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , <b>2015</b> , 125, 409-426	3.8	42
37	Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River. <i>Handbook of Environmental Chemistry</i> , <b>2015</b> , 143-158	0.8	
36	Biofilm growth and nitrogen uptake responses to increases in nitrate and ammonium availability. <i>Aquatic Sciences</i> , <b>2015</b> , 77, 695-707	2.5	16
35	Biofilm Responses to Flow Regulation by Dams in Mediterranean Rivers. <i>River Research and Applications</i> , <b>2015</b> , 31, 1003-1016	2.3	20
34	Occurrence and in-stream attenuation of wastewater-derived pharmaceuticals in Iberian rivers. <i>Science of the Total Environment</i> , <b>2015</b> , 503-504, 133-41	10.2	83
33	Mixed effects of effluents from a wastewater treatment plant on river ecosystem metabolism: subsidy or stress?. <i>Freshwater Biology</i> , <b>2015</b> , 60, 1398-1410	3.1	76
32	Global effects of agriculture on fluvial dissolved organic matter. <i>Scientific Reports</i> , <b>2015</b> , 5, 16328	4.9	59
31	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. <i>Freshwater Science</i> , <b>2015</b> , 34, 20-30	2	21
30	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. <i>Biogeochemistry</i> , <b>2015</b> , 123, 429-446	3.8	37
29	Variation in nitrate uptake and denitrification rates across a salinity gradient in Mediterranean semiarid streams. <i>Aquatic Sciences</i> , <b>2014</b> , 76, 295-311	2.5	21
28	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. <i>River Research and Applications</i> , <b>2014</b> , 30, 1318-1334	2.3	60
27	Flow regulation by dams affects ecosystem metabolism in Mediterranean rivers. <i>Freshwater Biology</i> , <b>2014</b> , 59, 1816-1829	3.1	49
26	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , <b>2014</b> , 4, 377-382	2.4	57
25	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. <i>Hydrobiologia</i> , <b>2013</b> , 719, 31-42	2.4	69
24	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. <i>Freshwater Science</i> , <b>2013</b> , 32, 1155-1167	2	34
23	Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. <i>FEMS Microbiology Ecology</i> , <b>2013</b> , 85, 104-15	4.3	29
22	Functional responses of stream biofilms to flow cessation, desiccation and rewetting. <i>Freshwater Biology</i> , <b>2012</b> , 57, 1565-1578	3.1	82
21	Nitrogen processing and the role of epilithic biofilms downstream of a wastewater treatment plant. <i>Freshwater Science</i> , <b>2012</b> , 31, 1057-1069	2	39

20	In-stream net uptake regulates inorganic nitrogen export from catchments under base flow conditions. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		26
19	Agriculture has changed the amount and composition of dissolved organic matter in Central European headwater streams. <i>Science of the Total Environment</i> , <b>2012</b> , 438, 435-46	10.2	175
18	When the river runs dry: human and ecological values of dry riverbeds. <i>Frontiers in Ecology and the Environment</i> , <b>2012</b> , 10, 202-209	5.5	198
17	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. <i>Biogeosciences</i> , <b>2011</b> , 8, 875-882	4.6	21
16	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. <i>Aquatic Sciences</i> , <b>2011</b> , 73, 485-497	2.5	78
15	Preconditioning effects of intermittent stream flow on leaf litter decomposition. <i>Aquatic Sciences</i> , <b>2011</b> , 73, 599-609	2.5	47
14	Stream acidification increases nitrogen uptake by leaf biofilms: implications at the ecosystem scale. <i>Freshwater Biology</i> , <b>2010</b> , 55, 1337-1348	3.1	10
13	Variation in stream C, N and P uptake along an altitudinal gradient: a space-for-time analogue to assess potential impacts of climate change <b>2009</b> , 40, 123-137		18
12	Resazurin as a smart tracer for quantifying metabolically active transient storage in stream ecosystems. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		77
11	Nitrate retention and removal in Mediterranean streams bordered by contrasting land uses: a <sup>15</sup> N tracer study. <i>Biogeosciences</i> , <b>2009</b> , 6, 181-196	4.6	39
10	Influence of land use on stream ecosystem function in a Mediterranean catchment. <i>Freshwater Biology</i> , <b>2008</b> , 53, 2600-2612	3.1	75
9	Combined effects of leaf litter inputs and a flood on nutrient retention in a Mediterranean mountain stream during fall. <i>Limnology and Oceanography</i> , <b>2008</b> , 53, 631-641	4.8	40
8	Inter-annual, Annual, and Seasonal Variation of P and N Retention in a Perennial and an Intermittent Stream. <i>Ecosystems</i> , <b>2008</b> , 11, 670-687	3.9	66
7	Effects of nutrients and light on periphyton biomass and nitrogen uptake in Mediterranean streams with contrasting land uses. <i>Freshwater Biology</i> , <b>2007</b> , 52, 891-906	3.1	112
6	Differential effects of preservation on the estimation of biomass of two common mayfly species. <i>Archiv für Hydrobiologie</i> , <b>2005</b> , 164, 325-334		13
5	Stabile Isotopentechniken und ihre Bedeutung für die gewässerökologische Forschung <b>2004</b> , 1-20		
4	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). <i>Research Ideas and Outcomes</i> , <b>3</b> , e21774	2.5	21
3	Nitrate retention and removal in Mediterranean streams with contrasting land uses: a <sup>15</sup> N tracer study		1

2 Streams: Perennial and Seasonal 853-857

1 Hydraulic and biological controls of biofilm nitrogen uptake in gravel-bed streams. *Limnology and Oceanography*, 4.8 2