Daniel von Schiller

List of Publications by Year
in descending order

94	4,177	94433	128289
papers	citations	37 h-index	60 g-index

98	98	98	4308
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	When the river runs dry: human and ecological values of dry riverbeds. Frontiers in Ecology and the Environment, 2012, 10, 202-209.	4.0	241
2	Agriculture has changed the amount and composition of dissolved organic matter in Central European headwater streams. Science of the Total Environment, 2012, 438, 435-446.	8.0	236
3	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. Environmental Pollution, 2016, 210, 121-128.	7.5	142
4	Effects of nutrients and light on periphyton biomass and nitrogen uptake in Mediterranean streams with contrasting land uses. Freshwater Biology, 2007, 52, 891-906.	2.4	131
5	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. Nature Geoscience, 2018, 11, 497-503.	12.9	108
6	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.	8.0	102
7	Functional responses of stream biofilms to flow cessation, desiccation and rewetting. Freshwater Biology, 2012, 57, 1565-1578.	2.4	100
8	Occurrence and in-stream attenuation of wastewater-derived pharmaceuticals in Iberian rivers. Science of the Total Environment, 2015, 503-504, 133-141.	8.0	99
9	Mixed effects of effluents from a wastewater treatment plant on river ecosystem metabolism: subsidy or stress?. Freshwater Biology, 2015, 60, 1398-1410.	2.4	96
10	Emissions from dry inland waters are a blind spot in the global carbon cycle. Earth-Science Reviews, 2019, 188, 240-248.	9.1	93
11	Resazurin as a â€œsmartâ€•tracer for quantifying metabolically active transient storage in stream ecosystems. Journal of Geophysical Research, 2009, 114, .	3.3	89
12	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. Aquatic Sciences, 2011, 73, 485-497.	1.5	89
13	Attenuation of pharmaceuticals and their transformation products in a wastewater treatment plant and its receiving river ecosystem. Water Research, 2016, 100, 126-136.	11.3	86
14	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. Hydrobiologia, 2013, 719, 31-42.	2.0	84
15	A tale of pipes and reactors: Controls on the inâ€stream dynamics of dissolved organic matter in rivers. Limnology and Oceanography, 2017, 62, S85.	3.1	82
16	Global effects of agriculture on fluvial dissolved organic matter. Scientific Reports, 2015, 5, 16328.	3.3	81
17	Influence of land use on stream ecosystem function in a Mediterranean catchment. Freshwater Biology, 2008, 53, 2600-2612.	2.4	80
18	Inter-annual, Annual, and Seasonal Variation of P and N Retention in a Perennial and an Intermittent Stream. Ecosystems, 2008, 11, 670-687.	3.4	74

#	Article	IF	Citations
19	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. River Research and Applications, 2014, 30, 1318-1334.	1.7	74
20	Global CO2 emissions from dry inland waters share common drivers across ecosystems. Nature Communications, 2020, 11, 2126.	12.8	73
21	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. Global Change Biology, 2019, 25, 1591-1611.	9.5	71
22	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. Ecosystems, 2016, 19, 710-723.	3.4	70
23	Carbon dioxide emissions from dry watercourses. Inland Waters, 2014, 4, 377-382.	2.2	69
24	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. Ecological Monographs, 2018, 88, 120-138.	5.4	60
25	Flow regulation by dams affects ecosystem metabolism in Mediterranean rivers. Freshwater Biology, 2014, 59, 1816-1829.	2.4	58
26	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. Biogeochemistry, 2015, 125, 409-426.	3.5	58
27	A conceptual framework for understanding the biogeochemistry of dry riverbeds through the lens of soil science. Earth-Science Reviews, 2019, 188, 441-453.	9.1	54
28	Preconditioning effects of intermittent stream flow on leaf litter decomposition. Aquatic Sciences, 2011, 73, 599-609.	1.5	52
29	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams. , 2017, , 135-160.		52
30	Multiple stressor effects on biodiversity and ecosystem functioning in a Mediterranean temporary river. Science of the Total Environment, 2019, 647, 1179-1187.	8.0	52
31	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 131-144.	3.0	50
32	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. Global Biogeochemical Cycles, 2019, 33, 1251-1263.	4.9	48
33	Nitrate retention and removal in Mediterranean streams bordered by contrasting land uses: a ¹⁵N tracer study. Biogeosciences, 2009, 6, 181-196.	3.3	47
34	Nitrogen processing and the role of epilithic biofilms downstream of a wastewater treatment plant. Freshwater Science, 2012, 31, 1057-1069.	1.8	46
35	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. Biogeochemistry, 2015, 123, 429-446.	3.5	46
36	Contribution of Hydrologic Opportunity and Biogeochemical Reactivity to the Variability of Nutrient Retention in River Networks. Global Biogeochemical Cycles, 2018, 32, 376-388.	4.9	44

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37	Combined effects of leaf litter inputs and a flood on nutrient retention in a Mediterranean mountain stream during fall. Limnology and Oceanography, 2008, 53, 631-641.	3.1	43
38	Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. FEMS Microbiology Ecology, 2013, 85, 104-115.	2.7	41
39	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. Frontiers in Microbiology, 2018, 9, 2794.	3.5	37
40	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. Freshwater Science, 2013, 32, 1155-1167.	1.8	36
41	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. Biogeochemistry, 2016, 127, 125-139.	3.5	36
42	Stream drying drives microbial ammonia oxidation and firstâ€flush nitrate export. Ecology, 2016, 97, 2192-2198.	3.2	35
43	Dry habitats sustain high CO2 emissions from temporary ponds across seasons. Scientific Reports, 2018, 8, 3015.	3.3	35
44	Understanding pathways of dissimilatory and assimilatory dissolved inorganic nitrogen uptake in streams. Limnology and Oceanography, 2017, 62, 1166-1183.	3.1	33
45	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). Research Ideas and Outcomes, 0, 3, e21774.	1.0	33
46	Inâ€stream net uptake regulates inorganic nitrogen export from catchments under base flow conditions. Journal of Geophysical Research, 2012, 117, .	3.3	32
47	Regulation causes nitrogen cycling discontinuities in Mediterranean rivers. Science of the Total Environment, 2016, 540, 168-177.	8.0	31
48	Organic Matter Decomposition and Ecosystem Metabolism as Tools to Assess the Functional Integrity of Streams and Riversâ€“A Systematic Review. Water (Switzerland), 2020, 12, 3523.	2.7	31
49	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. Limnology and Oceanography, 2021, 66, 306-320.	3.1	31
50	Conservation and Management of Isolated Pools in Temporary Rivers. Water (Switzerland), 2020, 12, 2870.	2.7	29
51	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. Global Biogeochemical Cycles, 2020, 34, e2019GB006495.	4.9	29
52	Accounting for flow intermittency in environmental flows design. Journal of Applied Ecology, 2020, 57, 742-753.	4.0	29
53	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. Freshwater Science, 2015, 34, 20-30.	1.8	28
54	Flow regulation increases foodâ€chain length through omnivory mechanisms in a Mediterranean river network. Freshwater Biology, 2016, 61, 1536-1549.	2.4	28

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55	Immediate and legacy effects of urban pollution on river ecosystem functioning: A mesocosm experiment. Ecotoxicology and Environmental Safety, 2019, 169, 960-970.	6.0	28
56	Impact of wastewater effluent pollution on stream functioning: A whole-ecosystem manipulation experiment. Environmental Pollution, 2020, 258, 113719.	7.5	28
57	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. Freshwater Science, 2016, 35, 1176-1188.	1.8	27
58	Variation in nitrate uptake and denitrification rates across a salinity gradient in Mediterranean semiarid streams. Aquatic Sciences, 2014, 76, 295-311.	1.5	25
59	Responses of groundâ€dwelling arthropods to surface flow drying in channels and adjacent habitats along Mediterranean streams. Ecohydrology, 2016, 9, 1376-1387.	2.4	25
60	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. Biogeosciences, 2011, 8, 875-882.	3.3	24
61	Biofilm Responses to Flow Regulation by Dams in Mediterranean Rivers. River Research and Applications, 2015, 31, 1003-1016.	1.7	24
62	Towards an improved understanding of biogeochemical processes across surface-groundwater interactions in intermittent rivers and ephemeral streams. Earth-Science Reviews, 2021, 220, 103724.	9.1	24
63	Consumerâ€resource stoichiometry as a predictor of trophic discrimination (Î”¹³C,) Tj ETQq1 1 0.784314 rgBT /Overloc	2.4	23
64	Combined effects of urban pollution and hydrological stress on ecosystem functions of Mediterranean streams. Science of the Total Environment, 2021, 753, 141971.	8.0	21
65	A global synthesis of human impacts on the multifunctionality of streams and rivers. Global Change Biology, 2022, 28, 4783-4793.	9.5	21
66	Biofilm growth and nitrogen uptake responses to increases in nitrate and ammonium availability. Aquatic Sciences, 2015, 77, 695-707.	1.5	20
67	Low contribution of internal metabolism to carbon dioxide emissions along lotic and lentic environments of a Mediterranean fluvial network. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 3030-3044.	3.0	20
68	Variation in stream C, N and P uptake along an altitudinal gradient: a space-for-time analogue to assess potential impacts of climate change. Hydrology Research, 2009, 40, 123-137.	2.7	19
69	Understanding the effects of predictability, duration, and spatial pattern of drying on benthic invertebrate assemblages in two contrasting intermittent streams. PLoS ONE, 2018, 13, e0193933.	2.5	18
70	Dynamics of ground-dwelling arthropod metacommunities in intermittent streams: The key role of dry riverbeds. Biological Conservation, 2020, 241, 108328.	4.1	18
71	Stream acidification increases nitrogen uptake by leaf biofilms: implications at the ecosystem scale. Freshwater Biology, 2010, 55, 1337-1348.	2.4	16
72	One for All, All for One: A Global River Research Network. Eos, 2016, 97, .	0.1	15

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73	Differential effects of preservation on the estimation of biomass of two common mayfly species. Archiv FÃ¼r Hydrobiologie, 2005, 164, 325-334.	1.1	14
74	Microbial carbon processing along a river discontinuum. Freshwater Science, 2016, 35, 1133-1147.	1.8	14
75	Drivers of nitrogen transfer in stream food webs across continents. Ecology, 2017, 98, 3044-3055.	3.2	13
76	Cross-continental importance of CH4 emissions from dry inland-waters. Science of the Total Environment, 2022, 814, 151925.	8.0	13
77	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. Biogeochemistry, 2021, 155, 381-400.	3.5	12
78	Does the severity of nonâ€flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. Freshwater Biology, 2018, 63, 613-625.	2.4	11
79	Testing wastewater treatment plant effluent effects on microbial and detritivore performance: A combined field and laboratory experiment. Aquatic Toxicology, 2018, 203, 159-171.	4.0	11
80	Multiple Stressors and Hydromorphological Degradation. , 2019, , 65-79.		10
81	Water diversion and pollution interactively shape freshwater food webs through bottomâ€up mechanisms. Global Change Biology, 2022, 28, 859-876.	9.5	9
82	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. Limnologica, 2018, 68, 82-91.	1.5	8
83	Effect of small water retention structures on diffusive CO2 and CH4 emissions along a highly impounded river. Inland Waters, 2018, 8, 449-460.	2.2	5
84	Uptake and trophic transfer of nitrogen and carbon in a temperate forested headwater stream. Aquatic Sciences, 2019, 81, 1.	1.5	5
85	Hydraulic and biological controls of biofilm nitrogen uptake in gravelâ€bed streams. Limnology and Oceanography, 2021, 66, 3887-3900.	3.1	5
86	Interactive effects of discharge reduction and fine sediments on stream biofilm metabolism. PLoS ONE, 2021, 16, e0246719.	2.5	4
87	The drawdown phase of dam decommissioning is a hot moment of gaseous carbon emissions from a temperate reservoir. Inland Waters, 2022, 12, 451-462.	2.2	3
88	Hydromorphologic Sorting of In-Stream Nitrogen Uptake Across Spatial Scales. Ecosystems, 2021, 24, 1184-1202.	3.4	2
89	Assessing Restoration of Ecosystem Functioning in Brazilian Subtropical and Tropical Streams. Limnology and Oceanography Bulletin, 2022, 31, 6-11.	0.4	2
90	Organic Matter Processing on Dry Riverbeds is More Reactive to Water Diversion and Pollution Than on Wet Channels. Frontiers in Environmental Science, 2022, 9, .	3.3	2

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91	Patterns and controls of carbon dioxide concentration and fluxes at the airâ€“water interface in South American lowland streams. Aquatic Sciences, 2022, 84, 1.	1.5	2
92	Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River. Handbook of Environmental Chemistry, 2015, , 143-158.	0.4	0
93	Streams: Perennial and Seasonal. , 0, , 853-857.		0
94	Consequences of an ecosystem state shift for nitrogen cycling in a desert stream. Limnology and Oceanography, 2022, 67, 1274-1286.	3.1	0