

Daniel von Schiller

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

4,177
citations

94269

37
h-index

128067

60
g-index

98
all docs

98
docs citations

98
times ranked

4308
citing authors

#	ARTICLE	IF	CITATIONS
1	When the river runs dry: human and ecological values of dry riverbeds. <i>Frontiers in Ecology and the Environment</i> , 2012, 10, 202-209.	1.9	241
2	Agriculture has changed the amount and composition of dissolved organic matter in Central European headwater streams. <i>Science of the Total Environment</i> , 2012, 438, 435-446.	3.9	236
3	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. <i>Environmental Pollution</i> , 2016, 210, 121-128.	3.7	142
4	Effects of nutrients and light on periphyton biomass and nitrogen uptake in Mediterranean streams with contrasting land uses. <i>Freshwater Biology</i> , 2007, 52, 891-906.	1.2	131
5	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. <i>Nature Geoscience</i> , 2018, 11, 497-503.	5.4	108
6	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
7	Functional responses of stream biofilms to flow cessation, desiccation and rewetting. <i>Freshwater Biology</i> , 2012, 57, 1565-1578.	1.2	100
8	Occurrence and in-stream attenuation of wastewater-derived pharmaceuticals in Iberian rivers. <i>Science of the Total Environment</i> , 2015, 503-504, 133-141.	3.9	99
9	Mixed effects of effluents from a wastewater treatment plant on river ecosystem metabolism: subsidy or stress?. <i>Freshwater Biology</i> , 2015, 60, 1398-1410.	1.2	96
10	Emissions from dry inland waters are a blind spot in the global carbon cycle. <i>Earth-Science Reviews</i> , 2019, 188, 240-248.	4.0	93
11	Resazurin as a "smart" tracer for quantifying metabolically active transient storage in stream ecosystems. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	89
12	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. <i>Aquatic Sciences</i> , 2011, 73, 485-497.	0.6	89
13	Attenuation of pharmaceuticals and their transformation products in a wastewater treatment plant and its receiving river ecosystem. <i>Water Research</i> , 2016, 100, 126-136.	5.3	86
14	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. <i>Hydrobiologia</i> , 2013, 719, 31-42.	1.0	84
15	A tale of pipes and reactors: Controls on the in-stream dynamics of dissolved organic matter in rivers. <i>Limnology and Oceanography</i> , 2017, 62, S85.	1.6	82
16	Global effects of agriculture on fluvial dissolved organic matter. <i>Scientific Reports</i> , 2015, 5, 16328.	1.6	81
17	Influence of land use on stream ecosystem function in a Mediterranean catchment. <i>Freshwater Biology</i> , 2008, 53, 2600-2612.	1.2	80
18	Inter-annual, Annual, and Seasonal Variation of P and N Retention in a Perennial and an Intermittent Stream. <i>Ecosystems</i> , 2008, 11, 670-687.	1.6	74

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19	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. <i>River Research and Applications</i> , 2014, 30, 1318-1334.	0.7	74
20	Global CO ₂ emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020, 11, 2126.	5.8	73
21	Simulating rewetting events in intermittent rivers and ephemeral streams: A global analysis of leached nutrients and organic matter. <i>Global Change Biology</i> , 2019, 25, 1591-1611.	4.2	71
22	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , 2016, 19, 710-723.	1.6	70
23	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , 2014, 4, 377-382.	1.1	69
24	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , 2018, 88, 120-138.	2.4	60
25	Flow regulation by dams affects ecosystem metabolism in Mediterranean rivers. <i>Freshwater Biology</i> , 2014, 59, 1816-1829.	1.2	58
26	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , 2015, 125, 409-426.	1.7	58
27	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.	4.0	54
28	Preconditioning effects of intermittent stream flow on leaf litter decomposition. <i>Aquatic Sciences</i> , 2011, 73, 599-609.	0.6	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. <i>Science of the Total Environment</i> , 2019, 647, 1179-1187.	3.9	52
31	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 131-144.	1.3	50
32	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1251-1263.	1.9	48
33	Nitrate retention and removal in Mediterranean streams bordered by contrasting land uses: a ¹⁵ N tracer study. <i>Biogeosciences</i> , 2009, 6, 181-196.	1.3	47
34	Nitrogen processing and the role of epilithic biofilms downstream of a wastewater treatment plant. <i>Freshwater Science</i> , 2012, 31, 1057-1069.	0.9	46
35	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. <i>Biogeochemistry</i> , 2015, 123, 429-446.	1.7	46
36	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.	1.9	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. <i>Limnology and Oceanography</i> , 2008, 53, 631-641.	1.6	43
38	Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. <i>FEMS Microbiology Ecology</i> , 2013, 85, 104-115.	1.3	41
39	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , 2018, 9, 2794.	1.5	37
40	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. <i>Freshwater Science</i> , 2013, 32, 1155-1167.	0.9	36
41	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. <i>Biogeochemistry</i> , 2016, 127, 125-139.	1.7	36
42	Stream drying drives microbial ammonia oxidation and first-flush nitrate export. <i>Ecology</i> , 2016, 97, 2192-2198.	1.5	35
43	Dry habitats sustain high CO ₂ emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018, 8, 3015.	1.6	35
44	Understanding pathways of dissimilatory and assimilatory dissolved inorganic nitrogen uptake in streams. <i>Limnology and Oceanography</i> , 2017, 62, 1166-1183.	1.6	33
45	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). <i>Research Ideas and Outcomes</i> , 0, 3, e21774.	1.0	33
46	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
47	Regulation causes nitrogen cycling discontinuities in Mediterranean rivers. <i>Science of the Total Environment</i> , 2016, 540, 168-177.	3.9	31
48	Organic Matter Decomposition and Ecosystem Metabolism as Tools to Assess the Functional Integrity of Streams and Rivers—A Systematic Review. <i>Water (Switzerland)</i> , 2020, 12, 3523.	1.2	31
49	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021, 66, 306-320.	1.6	31
50	Conservation and Management of Isolated Pools in Temporary Rivers. <i>Water (Switzerland)</i> , 2020, 12, 2870.	1.2	29
51	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2019GB006495.	1.9	29
52	Accounting for flow intermittency in environmental flows design. <i>Journal of Applied Ecology</i> , 2020, 57, 742-753.	1.9	29
53	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. <i>Freshwater Science</i> , 2015, 34, 20-30.	0.9	28
54	Flow regulation increases food-chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , 2016, 61, 1536-1549.	1.2	28

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55	Immediate and legacy effects of urban pollution on river ecosystem functioning: A mesocosm experiment. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 960-970.	2.9	28
56	Impact of wastewater effluent pollution on stream functioning: A whole-ecosystem manipulation experiment. <i>Environmental Pollution</i> , 2020, 258, 113719.	3.7	28
57	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. <i>Freshwater Science</i> , 2016, 35, 1176-1188.	0.9	27
58	Variation in nitrate uptake and denitrification rates across a salinity gradient in Mediterranean semiarid streams. <i>Aquatic Sciences</i> , 2014, 76, 295-311.	0.6	25
59	Responses of ground-dwelling arthropods to surface flow drying in channels and adjacent habitats along Mediterranean streams. <i>Ecohydrology</i> , 2016, 9, 1376-1387.	1.1	25
60	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. <i>Biogeosciences</i> , 2011, 8, 875-882.	1.3	24
61	Biofilm Responses to Flow Regulation by Dams in Mediterranean Rivers. <i>River Research and Applications</i> , 2015, 31, 1003-1016.	0.7	24
62	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.	4.0	24
63	Consumer-resource stoichiometry as a predictor of trophic discrimination ($\delta^{15}N$ and $\delta^{13}C$). <i>Trends in Ecology and Evolution</i> , 2013, 24, 113-121.	1.2	23
64	Combined effects of urban pollution and hydrological stress on ecosystem functions of Mediterranean streams. <i>Science of the Total Environment</i> , 2021, 753, 141971.	3.9	21
65	A global synthesis of human impacts on the multifunctionality of streams and rivers. <i>Global Change Biology</i> , 2022, 28, 4783-4793.	4.2	21
66	Biofilm growth and nitrogen uptake responses to increases in nitrate and ammonium availability. <i>Aquatic Sciences</i> , 2015, 77, 695-707.	0.6	20
67	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> , 2016, 121, 3030-3044.	1.3	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. <i>Hydrology Research</i> , 2009, 40, 123-137.	1.1	19
69	Understanding the effects of predictability, duration, and spatial pattern of drying on benthic invertebrate assemblages in two contrasting intermittent streams. <i>PLoS ONE</i> , 2018, 13, e0193933.	1.1	18
70	Dynamics of ground-dwelling arthropod metacommunities in intermittent streams: The key role of dry riverbeds. <i>Biological Conservation</i> , 2020, 241, 108328.	1.9	18
71	Stream acidification increases nitrogen uptake by leaf biofilms: implications at the ecosystem scale. <i>Freshwater Biology</i> , 2010, 55, 1337-1348.	1.2	16
72	One for All, All for One: A Global River Research Network. <i>Eos</i> , 2016, 97, .	0.1	15

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73	Differential effects of preservation on the estimation of biomass of two common mayfly species. <i>Archiv für Hydrobiologie</i> , 2005, 164, 325-334.	1.1	14
74	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , 2016, 35, 1133-1147.	0.9	14
75	Drivers of nitrogen transfer in stream food webs across continents. <i>Ecology</i> , 2017, 98, 3044-3055.	1.5	13
76	Cross-continental importance of CH ₄ emissions from dry inland-waters. <i>Science of the Total Environment</i> , 2022, 814, 151925.	3.9	13
77	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , 2021, 155, 381-400.	1.7	12
78	Does the severity of non-flow periods influence ecosystem structure and function of temporary streams? A mesocosm study. <i>Freshwater Biology</i> , 2018, 63, 613-625.	1.2	11
79	Testing wastewater treatment plant effluent effects on microbial and detritivore performance: A combined field and laboratory experiment. <i>Aquatic Toxicology</i> , 2018, 203, 159-171.	1.9	11
80	Multiple Stressors and Hydromorphological Degradation. , 2019, , 65-79.		10
81	Water diversion and pollution interactively shape freshwater food webs through bottom mechanisms. <i>Global Change Biology</i> , 2022, 28, 859-876.	4.2	9
82	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. <i>Limnologia</i> , 2018, 68, 82-91.	0.7	8
83	Effect of small water retention structures on diffusive CO ₂ and CH ₄ emissions along a highly impounded river. <i>Inland Waters</i> , 2018, 8, 449-460.	1.1	5
84	Uptake and trophic transfer of nitrogen and carbon in a temperate forested headwater stream. <i>Aquatic Sciences</i> , 2019, 81, 1.	0.6	5
85	Hydraulic and biological controls of biofilm nitrogen uptake in gravel-bed streams. <i>Limnology and Oceanography</i> , 2021, 66, 3887-3900.	1.6	5
86	Interactive effects of discharge reduction and fine sediments on stream biofilm metabolism. <i>PLoS ONE</i> , 2021, 16, e0246719.	1.1	4
87	The drawdown phase of dam decommissioning is a hot moment of gaseous carbon emissions from a temperate reservoir. <i>Inland Waters</i> , 2022, 12, 451-462.	1.1	3
88	Hydromorphologic Sorting of In-Stream Nitrogen Uptake Across Spatial Scales. <i>Ecosystems</i> , 2021, 24, 1184-1202.	1.6	2
89	Assessing Restoration of Ecosystem Functioning in Brazilian Subtropical and Tropical Streams. <i>Limnology and Oceanography Bulletin</i> , 2022, 31, 6-11.	0.2	2
90	Organic Matter Processing on Dry Riverbeds is More Reactive to Water Diversion and Pollution Than on Wet Channels. <i>Frontiers in Environmental Science</i> , 2022, 9, .	1.5	2

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91	Patterns and controls of carbon dioxide concentration and fluxes at the air-water interface in South American lowland streams. <i>Aquatic Sciences</i> , 2022, 84, 1.	0.6	2
92	Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River. <i>Handbook of Environmental Chemistry</i> , 2015, , 143-158.	0.2	0
93	Streams: Perennial and Seasonal. , 0, , 853-857.		0
94	Consequences of an ecosystem state shift for nitrogen cycling in a desert stream. <i>Limnology and Oceanography</i> , 2022, 67, 1274-1286.	1.6	0