

Daniel von Schiller

List of Publications by Citations

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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	When the river runs dry: human and ecological values of dry riverbeds. <i>Frontiers in Ecology and the Environment</i> , 2012 , 10, 202-209	5.5	198
90	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, 435-46	10.2	175
89	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	3.1	112
88	Occurrence and persistence of antibiotic resistance genes in river biofilms after wastewater inputs in small rivers. <i>Environmental Pollution</i> , 2016 , 210, 121-8	9.3	106
87	Occurrence and in-stream attenuation of wastewater-derived pharmaceuticals in Iberian rivers. <i>Science of the Total Environment</i> , 2015 , 503-504, 133-41	10.2	83
86	Functional responses of stream biofilms to flow cessation, desiccation and rewetting. <i>Freshwater Biology</i> , 2012 , 57, 1565-1578	3.1	82
85	Contraction, fragmentation and expansion dynamics determine nutrient availability in a Mediterranean forest stream. <i>Aquatic Sciences</i> , 2011 , 73, 485-497	2.5	78
84	Resazurin as a smart tracer for quantifying metabolically active transient storage in stream ecosystems. <i>Journal of Geophysical Research</i> , 2009 , 114,		77
83	Mixed effects of effluents from a wastewater treatment plant on river ecosystem metabolism: subsidy or stress?. <i>Freshwater Biology</i> , 2015 , 60, 1398-1410	3.1	76
82	Influence of land use on stream ecosystem function in a Mediterranean catchment. <i>Freshwater Biology</i> , 2008 , 53, 2600-2612	3.1	75
81	Hydrological extremes modulate nutrient dynamics in mediterranean climate streams across different spatial scales. <i>Hydrobiologia</i> , 2013 , 719, 31-42	2.4	69
80	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. <i>Nature Geoscience</i> , 2018 , 11, 497-503	18.3	69
79	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	10.2	66
78	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	3.9	66
77	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	12.5	66
76	THE MIRAGE TOOLBOX: AN INTEGRATED ASSESSMENT TOOL FOR TEMPORARY STREAMS. <i>River Research and Applications</i> , 2014 , 30, 1318-1334	2.3	60
75	Global effects of agriculture on fluvial dissolved organic matter. <i>Scientific Reports</i> , 2015 , 5, 16328	4.9	59

74	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-S94	4.8	58
73	Carbon dioxide emissions from dry watercourses. <i>Inland Waters</i> , 2014 , 4, 377-382	2.4	57
72	When Water Vanishes: Magnitude and Regulation of Carbon Dioxide Emissions from Dry Temporary Streams. <i>Ecosystems</i> , 2016 , 19, 710-723	3.9	54
71	Emissions from dry inland waters are a blind spot in the global carbon cycle. <i>Earth-Science Reviews</i> , 2019 , 188, 240-248	10.2	51
70	Flow regulation by dams affects ecosystem metabolism in Mediterranean rivers. <i>Freshwater Biology</i> , 2014 , 59, 1816-1829	3.1	49
69	Preconditioning effects of intermittent stream flow on leaf litter decomposition. <i>Aquatic Sciences</i> , 2011 , 73, 599-609	2.5	47
68	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	11.4	47
67	Partitioning assimilatory nitrogen uptake in streams: an analysis of stable isotope tracer additions across continents. <i>Ecological Monographs</i> , 2018 , 88, 120-138	9	43
66	Hot spots for carbon emissions from Mediterranean fluvial networks during summer drought. <i>Biogeochemistry</i> , 2015 , 125, 409-426	3.8	42
65	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	4.8	40
64	Nitrogen processing and the role of epilithic biofilms downstream of a wastewater treatment plant. <i>Freshwater Science</i> , 2012 , 31, 1057-1069	2	39
63	Nitrate retention and removal in Mediterranean streams bordered by contrasting land uses: a ^{15}N tracer study. <i>Biogeosciences</i> , 2009 , 6, 181-196	4.6	39
62	Hydrological transitions drive dissolved organic matter quantity and composition in a temporary Mediterranean stream. <i>Biogeochemistry</i> , 2015 , 123, 429-446	3.8	37
61	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	10.2	36
60	Influence of nitrate and ammonium availability on uptake kinetics of stream biofilms. <i>Freshwater Science</i> , 2013 , 32, 1155-1167	2	34
59	Global CO emissions from dry inland waters share common drivers across ecosystems. <i>Nature Communications</i> , 2020 , 11, 2126	17.4	33
58	Nutrient and Organic Matter Dynamics in Intermittent Rivers and Ephemeral Streams 2017 , 135-160		33
57	Biodegradation kinetics of dissolved organic matter chromatographic fractions in an intermittent river. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017 , 122, 131-144	3.7	30

56	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	5.9	29
55	Multiple stressor effects on biodiversity and ecosystem functioning in a Mediterranean temporary river. <i>Science of the Total Environment</i> , 2019 , 647, 1179-1187	10.2	29
54	Colonization of freshwater biofilms by nitrifying bacteria from activated sludge. <i>FEMS Microbiology Ecology</i> , 2013 , 85, 104-15	4.3	29
53	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 1251-1263	5.9	28
52	Drought-induced discontinuities in the source and degradation of dissolved organic matter in a Mediterranean river. <i>Biogeochemistry</i> , 2016 , 127, 125-139	3.8	27
51	In-stream net uptake regulates inorganic nitrogen export from catchments under base flow conditions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
50	Drying and Rainfall Shape the Structure and Functioning of Nitrifying Microbial Communities in Riverbed Sediments. <i>Frontiers in Microbiology</i> , 2018 , 9, 2794	5.7	26
49	Understanding pathways of dissimilatory and assimilatory dissolved inorganic nitrogen uptake in streams. <i>Limnology and Oceanography</i> , 2017 , 62, 1166-1183	4.8	25
48	Stream drying drives microbial ammonia oxidation and first-flush nitrate export. <i>Ecology</i> , 2016 , 97, 2192-2198	4.9	25
47	Regulation causes nitrogen cycling discontinuities in Mediterranean rivers. <i>Science of the Total Environment</i> , 2016 , 540, 168-77	10.2	24
46	Dry habitats sustain high CO emissions from temporary ponds across seasons. <i>Scientific Reports</i> , 2018 , 8, 3015	4.9	22
45	Variation in nitrate uptake and denitrification rates across a salinity gradient in Mediterranean semiarid streams. <i>Aquatic Sciences</i> , 2014 , 76, 295-311	2.5	21
44	A round-trip ticket: the importance of release processes for in-stream nutrient spiraling. <i>Freshwater Science</i> , 2015 , 34, 20-30	2	21
43	Technical Note: A comparison of two empirical approaches to estimate in-stream net nutrient uptake. <i>Biogeosciences</i> , 2011 , 8, 875-882	4.6	21
42	Science and Management of Intermittent Rivers and Ephemeral Streams (SMIRES). <i>Research Ideas and Outcomes</i> , 2017 , 3, e21774	2.5	21
41	Biofilm Responses to Flow Regulation by Dams in Mediterranean Rivers. <i>River Research and Applications</i> , 2015 , 31, 1003-1016	2.3	20
40	Flow regulation increases food-chain length through omnivory mechanisms in a Mediterranean river network. <i>Freshwater Biology</i> , 2016 , 61, 1536-1549	3.1	20
39	Linking in-stream nutrient uptake to hydrologic retention in two headwater streams. <i>Freshwater Science</i> , 2016 , 35, 1176-1188	2	20

38	Variation in stream C, N and P uptake along an altitudinal gradient: a space-for-time analogue to assess potential impacts of climate change 2009 , 40, 123-137		18
37	Responses of ground-dwelling arthropods to surface flow drying in channels and adjacent habitats along Mediterranean streams. <i>Ecohydrology</i> , 2016 , 9, 1376-1387	2.5	17
36	Biofilm growth and nitrogen uptake responses to increases in nitrate and ammonium availability. <i>Aquatic Sciences</i> , 2015 , 77, 695-707	2.5	16
35	Accounting for flow intermittency in environmental flows design. <i>Journal of Applied Ecology</i> , 2020 , 57, 742-753	5.8	16
34	Immediate and legacy effects of urban pollution on river ecosystem functioning: A mesocosm experiment. <i>Ecotoxicology and Environmental Safety</i> , 2019 , 169, 960-970	7	16
33	Consumer-resource stoichiometry as a predictor of trophic discrimination ($\delta^{13}C$, $\delta^{15}N$) in aquatic invertebrates. <i>Freshwater Biology</i> , 2018 , 63, 1240-1249	3.1	14
32	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	3.7	13
31	Differential effects of preservation on the estimation of biomass of two common mayfly species. <i>Archiv für Hydrobiologie</i> , 2005 , 164, 325-334		13
30	Impact of wastewater effluent pollution on stream functioning: A whole-ecosystem manipulation experiment. <i>Environmental Pollution</i> , 2020 , 258, 113719	9.3	13
29	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	3.7	12
28	Delineating the Continuum of Dissolved Organic Matter in Temperate River Networks. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006495	5.9	12
27	Microbial carbon processing along a river discontinuum. <i>Freshwater Science</i> , 2016 , 35, 1133-1147	2	10
26	Drivers of nitrogen transfer in stream food webs across continents. <i>Ecology</i> , 2017 , 98, 3044-3055	4.6	10
25	Stream acidification increases nitrogen uptake by leaf biofilms: implications at the ecosystem scale. <i>Freshwater Biology</i> , 2010 , 55, 1337-1348	3.1	10
24	One for All, All for One: A Global River Research Network. <i>Eos</i> , 2016 , 97,	1.5	10
23	Conservation and Management of Isolated Pools in Temporary Rivers. <i>Water (Switzerland)</i> , 2020 , 12, 2870	3	10
22	Combined effects of urban pollution and hydrological stress on ecosystem functions of Mediterranean streams. <i>Science of the Total Environment</i> , 2021 , 753, 141971	10.2	9
21	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	10.2	9

20	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	3.1	8
19	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	5.1	7
18	Dynamics of ground-dwelling arthropod metacommunities in intermittent streams: The key role of dry riverbeds. <i>Biological Conservation</i> , 2020 , 241, 108328	6.2	7
17	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	3	6
16	The relevance of environment vs. composition on dissolved organic matter degradation in freshwaters. <i>Limnology and Oceanography</i> , 2021 , 66, 306-320	4.8	6
15	Multiple Stressors and Hydromorphological Degradation 2019 , 65-79		4
14	Assessing net-uptake of nitrate and natural dissolved organic matter fractions in a revitalized lowland stream reach. <i>Limnologica</i> , 2018 , 68, 82-91	2	4
13	Uptake and trophic transfer of nitrogen and carbon in a temperate forested headwater stream. <i>Aquatic Sciences</i> , 2019 , 81, 1	2.5	3
12	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , 2021 , 155, 381-400	3.8	3
11	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	2.4	2
10	Hydraulic and biological controls of biofilm nitrogen uptake in gravel-bed streams. <i>Limnology and Oceanography</i> ,	4.8	2
9	Water diversion and pollution interactively shape freshwater food webs through bottom-up mechanisms. <i>Global Change Biology</i> , 2021 ,	11.4	2
8	Nitrate retention and removal in Mediterranean streams with contrasting land uses: a ¹⁵ N tracer study		1
7	Hydromorphologic Sorting of In-Stream Nitrogen Uptake Across Spatial Scales. <i>Ecosystems</i> , 2021 , 24, 1184-1202	3.9	1
6	Interactive effects of discharge reduction and fine sediments on stream biofilm metabolism. <i>PLoS ONE</i> , 2021 , 16, e0246719	3.7	1
5	Cross-continental importance of CH emissions from dry inland-waters. <i>Science of the Total Environment</i> , 2021 , 814, 151925	10.2	0
4	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	2.5	0
3	Ecosystem Responses to Emerging Contaminants: Fate and Effects of Pharmaceuticals in a Mediterranean River. <i>Handbook of Environmental Chemistry</i> , 2015 , 143-158	0.8	

2 Stabile Isotopentechniken und ihre Bedeutung für die gewässerökologische Forschung **2004**, 1-20

1 Streams: Perennial and Seasonal 853-857