

Dominik Zak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2983743/publications.pdf>

Version: 2024-02-01

57
papers

2,625
citations

186209

28
h-index

206029

48
g-index

70
all docs

70
docs citations

70
times ranked

2902
citing authors

#	ARTICLE	IF	CITATIONS
1	Restoring Riparian Peatlands for Inland Waters: A European Perspective. , 2022, , 276-287.		3
2	Impact of vegetation harvesting on nutrient removal and plant biomass quality in wetland buffer zones. <i>Hydrobiologia</i> , 2021, 848, 3273-3289.	1.0	16
3	Sulphate in freshwater ecosystems: A review of sources, biogeochemical cycles, ecotoxicological effects and bioremediation. <i>Earth-Science Reviews</i> , 2021, 212, 103446.	4.0	82
4	Nitrogen removal and greenhouse gas fluxes from integrated buffer zones treating agricultural drainage water. <i>Science of the Total Environment</i> , 2021, 774, 145070.	3.9	7
5	Desiccation time and rainfall control gaseous carbon fluxes in an intermittent stream. <i>Biogeochemistry</i> , 2021, 155, 381-400.	1.7	12
6	Eukaryotic rather than prokaryotic microbiomes change over seasons in rewetted fen peatlands. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	8
7	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
8	Nitrogen removal and nitrous oxide emissions from woodchip bioreactors treating agricultural drainage waters. <i>Ecological Engineering</i> , 2021, 169, 106328.	1.6	13
9	Danish wetlands remained poor with plant species 17-years after restoration. <i>Science of the Total Environment</i> , 2021, 798, 149146.	3.9	9
10	Rewetting does not return drained fen peatlands to their old selves. <i>Nature Communications</i> , 2021, 12, 5693.	5.8	75
11	Nitrogen and phosphorus retention in Danish restored wetlands. <i>Ambio</i> , 2020, 49, 324-336.	2.8	36
12	An overview of nutrient transport mitigation measures for improvement of water quality in Denmark. <i>Ecological Engineering</i> , 2020, 155, 105863.	1.6	28
13	Efficiency of mitigation measures targeting nutrient losses from agricultural drainage systems: A review. <i>Ambio</i> , 2020, 49, 1820-1837.	2.8	53
14	Topsoil removal reduced in-situ methane emissions in a temperate rewetted bog grassland by a hundredfold. <i>Science of the Total Environment</i> , 2020, 721, 137763.	3.9	19
15	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. <i>Soil Systems</i> , 2020, 4, 14.	1.0	45
16	Catchment-Scale Analysis Reveals High Cost-Effectiveness of Wetland Buffer Zones as a Remedy to Non-Point Nutrient Pollution in North-Eastern Poland. <i>Water (Switzerland)</i> , 2020, 12, 629.	1.2	27
17	Effect of anisotropy on solute transport in degraded fen peat soils. <i>Hydrological Processes</i> , 2020, 34, 2128-2138.	1.1	16
18	Long-Term Rewetting of Three Formerly Drained Peatlands Drives Congruent Compositional Changes in Pro- and Eukaryotic Soil Microbiomes through Environmental Filtering. <i>Microorganisms</i> , 2020, 8, 550.	1.6	25

#	ARTICLE	IF	CITATIONS
19	Evidence for preferential protein depolymerization in wetland soils in response to external nitrogen availability provided by a novel FTIR routine. <i>Biogeosciences</i> , 2020, 17, 499-514.	1.3	11
20	Wetland buffer zones for nitrogen and phosphorus retention: Impacts of soil type, hydrology and vegetation. <i>Science of the Total Environment</i> , 2020, 727, 138709.	3.9	89
21	Soil degradation determines release of nitrous oxide and dissolved organic carbon from peatlands. <i>Environmental Research Letters</i> , 2019, 14, 094009.	2.2	38
22	Unraveling the Importance of Polyphenols for Microbial Carbon Mineralization in Rewetted Riparian Peatlands. <i>Frontiers in Environmental Science</i> , 2019, 7, .	1.5	34
23	Sediment Respiration Pulses in Intermittent Rivers and Ephemeral Streams. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1251-1263.	1.9	48
24	An Assessment of the Multifunctionality of Integrated Buffer Zones in Northwestern Europe. <i>Journal of Environmental Quality</i> , 2019, 48, 362-375.	1.0	29
25	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
26	Going with the flow: Planktonic processing of dissolved organic carbon in streams. <i>Science of the Total Environment</i> , 2018, 625, 519-530.	3.9	10
27	Top soil removal reduces water pollution from phosphorus and dissolved organic matter and lowers methane emissions from rewetted peatlands. <i>Journal of Applied Ecology</i> , 2018, 55, 311-320.	1.9	33
28	Storage effects on quantity and composition of dissolved organic carbon and nitrogen of lake water, leaf leachate and peat soil water. <i>Water Research</i> , 2018, 130, 98-104.	5.3	29
29	Predominance of methanogens over methanotrophs in rewetted fens characterized by high methane emissions. <i>Biogeosciences</i> , 2018, 15, 6519-6536.	1.3	38
30	A global analysis of terrestrial plant litter dynamics in non-perennial waterways. <i>Nature Geoscience</i> , 2018, 11, 497-503.	5.4	108
31	Nitrogen and Phosphorus Removal from Agricultural Runoff in Integrated Buffer Zones. <i>Environmental Science & Technology</i> , 2018, 52, 6508-6517.	4.6	71
32	Topsoil removal to minimize internal eutrophication in rewetted peatlands and to protect downstream systems against phosphorus pollution: A case study from NE Germany. <i>Ecological Engineering</i> , 2017, 103, 488-496.	1.6	32
33	Restoration of endangered fen communities: the ambiguity of iron-phosphorus binding and phosphorus limitation. <i>Journal of Applied Ecology</i> , 2017, 54, 1755-1764.	1.9	20
34	Direct Analysis of Lignin Phenols in Freshwater Dissolved Organic Matter. <i>Analytical Chemistry</i> , 2017, 89, 13449-13457.	3.2	8
35	The importance of landscape diversity for carbon fluxes at the landscape level: small-scale heterogeneity matters. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 601-617.	2.8	32
36	Water level fluctuations in a tropical reservoir: the impact of sediment drying, aquatic macrophyte dieback, and oxygen availability on phosphorus mobilization. <i>Environmental Science and Pollution Research</i> , 2016, 23, 6883-6894.	2.7	39

#	ARTICLE	IF	CITATIONS
37	Soil Iron Content as a Predictor of Carbon and Nutrient Mobilization in Rewetted Fens. PLoS ONE, 2016, 11, e0153166.	1.1	27
38	Changes of the CO ₂ and CH ₄ production potential of rewetted fens in the perspective of temporal vegetation shifts. Biogeosciences, 2015, 12, 2455-2468.	1.3	36
39	Comparison of Organic Matter Composition in Agricultural versus Forest Affected Headwaters with Special Emphasis on Organic Nitrogen. Environmental Science & Technology, 2015, 49, 2081-2090.	4.6	73
40	Carbon, nitrogen, and phosphorus accumulation in novel ecosystems: Shallow lakes in degraded fen areas. Ecological Engineering, 2014, 66, 63-71.	1.6	30
41	How helophytes influence the phosphorus cycle in degraded inundated peat soils – Implications for fen restoration. Ecological Engineering, 2014, 66, 82-90.	1.6	43
42	The effect of rewetting drained fens with nitrate-polluted water on dissolved organic carbon and phosphorus release. Ecological Engineering, 2013, 53, 79-88.	1.6	25
43	Ecosystem Service Restoration after 10 Years of Rewetting Peatlands in NE Germany. Environmental Management, 2013, 51, 1194-1209.	1.2	61
44	Iron traps terrestrially derived dissolved organic matter at redox interfaces. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 10101-10105.	3.3	360
45	Biomass and nutrient stock of submersed and floating macrophytes in shallow lakes formed by rewetting of degraded fens. Hydrobiologia, 2012, 692, 99-109.	1.0	30
46	Effects of degree of peat decomposition, loading rate and temperature on dissolved nitrogen turnover in rewetted fens. Soil Biology and Biochemistry, 2012, 48, 182-191.	4.2	31
47	Organic sediment formed during inundation of a degraded fen grassland emits large fluxes of CH ₄ and CO ₂ . Biogeosciences, 2011, 8, 1539-1550.	1.3	82
48	Preface: Restoration, biogeochemistry and ecological services of wetlands. Hydrobiologia, 2011, 674, 1-4.	1.0	12
49	Phosphorus mobilization in rewetted fens: the effect of altered peat properties and implications for their restoration. Ecological Applications, 2010, 20, 1336-1349.	1.8	107
50	Mitigation of sulfate pollution by rewetting of fens – A conflict with restoring their phosphorus sink function?. Wetlands, 2009, 29, 1093-1103.	0.7	17
51	Evaluation of a well-established sequential phosphorus fractionation technique for use in calcite-rich lake sediments: identification and prevention of artifacts due to apatite formation. Limnology and Oceanography: Methods, 2009, 7, 399-410.	1.0	44
52	Evaluation of phosphorus mobilization potential in rewetted fens by an improved sequential chemical extraction procedure. European Journal of Soil Science, 2008, 59, 1191-1201.	1.8	54
53	The mobilisation of phosphorus, organic carbon and ammonium in the initial stage of fen rewetting (a) Tj ETQq1 1 0.784314 157 /Over	1.7	157
54	Sulphate-mediated phosphorus mobilization in riverine sediments at increasing sulphate concentration, River Spree, NE Germany. Biogeochemistry, 2006, 80, 109-119.	1.7	60

#	ARTICLE	IF	CITATIONS
55	Population Density of the Crayfish, <i>Orconectes limosus</i> , in Relation to Fish and Macroinvertebrate Densities in a Small Mesotrophic Lake - Implications for the Lake's Food Web. <i>International Review of Hydrobiology</i> , 2005, 90, 523-533.	0.5	19
56	Phosphorus Retention at the Redox Interface of Peatlands Adjacent to Surface Waters in Northeast Germany. <i>Biogeochemistry</i> , 2004, 70, 357-368.	1.7	106
57	Phosphorus mobilization in rewetted fens: the effect of altered peat properties and implications for their restoration. , 0, , 100319061507001.		4