Ronny Lauerwald

List of Publications by Year in descending order

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RONNY LALIERWALD

#	Article	IF	CITATIONS
1	Regional trends and drivers of the global methane budget. Global Change Biology, 2022, 28, 182-200.	9.5	56
2	A strong mitigation scenario maintains climate neutrality of northern peatlands. One Earth, 2022, 5, 86-97.	6.8	14
3	Spatiotemporal patterns and drivers of terrestrial dissolved organic carbonÂ(DOC) leaching into the European river network. Earth System Dynamics, 2022, 13, 393-418.	7.1	11
4	Definitions and methods to estimate regional land carbon fluxes for the second phase of the REgional Carbon Cycle Assessment and Processes Project (RECCAP-2). Geoscientific Model Development, 2022, 15, 1289-1316.	3.6	34
5	Comparing national greenhouse gas budgets reported in UNFCCC inventories against atmospheric inversions. Earth System Science Data, 2022, 14, 1639-1675.	9.9	58
6	State of science in carbon budget assessments for temperate forests and grasslands. , 2022, , 237-270.		0
7	Empirical estimates of regional carbon budgets imply reduced global soil heterotrophic respiration. National Science Review, 2021, 8, nwaa145.	9.5	70
8	Leaching of dissolved organic carbon from mineral soils plays a significant role in the terrestrial carbon balance. Global Change Biology, 2021, 27, 1083-1096.	9.5	47
9	Historical and future contributions of inland waters to the Congo Basin carbon balance. Earth System Dynamics, 2021, 12, 37-62.	7.1	13
10	Around one third of current Arctic Ocean primary production sustained by rivers and coastal erosion. Nature Communications, 2021, 12, 169.	12.8	106
11	Global evaluation of the nutrient-enabled version of the land surface model ORCHIDEE-CNP v1.2 (r5986). Geoscientific Model Development, 2021, 14, 1987-2010.	3.6	22
12	The consolidated European synthesis of CH ₄ and N ₂ O emissions for the European Union and United Kingdom: 1990–2017. Earth System Science Data, 2021, 13, 2307-2362.	9.9	16
13	The consolidated European synthesis of CO ₂ emissions and removals for the European Union and United Kingdom: 1990–2018. Earth System Science Data, 2021, 13, 2363-2406.	9.9	23
14	Large historical carbon emissions from cultivated northern peatlands. Science Advances, 2021, 7, .	10.3	37
15	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottomâ€Up and Topâ€Down Approaches: Informing Future Research and National Inventories. Geophysical Research Letters, 2021, 48, e2021GL095264.	4.0	7
16	State of the science in reconciling topâ€down and bottomâ€up approaches for terrestrial CO ₂ budget. Global Change Biology, 2020, 26, 1068-1084.	9.5	43
17	A comprehensive quantification of global nitrous oxide sources and sinks. Nature, 2020, 586, 248-256.	27.8	814
18	How Simulations of the Land Carbon Sink Are Biased by Ignoring Fluvial Carbon Transfers: A Case Study for the Amazon Basin. One Earth, 2020, 3, 226-236.	6.8	26

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19	Simulating Erosionâ€Induced Soil and Carbon Delivery From Uplands to Rivers in a Global Land Surface Model. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002121.	3.8	10
20	ORCHIDEE MICT-LEAK (r5459), a global model for the production, transport, and transformation of dissolved organic carbon from Arctic permafrost regions – Part 2: Model evaluation over the Lena River basin. Geoscientific Model Development, 2020, 13, 507-520.	3.6	12
21	CE-DYNAM (v1): a spatially explicit process-based carbon erosion scheme for use in Earth system models. Geoscientific Model Development, 2020, 13, 1201-1222.	3.6	11
22	Sources of Uncertainty in Regional and Global Terrestrial CO ₂ Exchange Estimates. Global Biogeochemical Cycles, 2020, 34, e2019GB006393.	4.9	59
23	Unexpected large evasion fluxes of carbon dioxide from turbulent streams draining the world's mountains. Nature Communications, 2019, 10, 4888.	12.8	71
24	Natural Lakes Are a Minor Global Source of N ₂ O to the Atmosphere. Global Biogeochemical Cycles, 2019, 33, 1564-1581.	4.9	40
25	ORCHIDEE MICT-LEAK (r5459), a global model for the production, transport, and transformation of dissolved organic carbon from Arctic permafrost regions – Part 1: Rationale, model description, and simulation protocol. Geoscientific Model Development, 2019, 12, 3503-3521.	3.6	12
26	Aquatic carbon fluxes dampen the overall variation of net ecosystem productivity in the Amazon basin: An analysis of the interannual variability in the boundless carbon cycle. Global Change Biology, 2019, 25, 2094-2111.	9.5	34
27	Nitrous oxide emissions from inland waters: Are IPCC estimates too high?. Global Change Biology, 2019, 25, 473-488.	9.5	119
28	<scp>CO</scp> ₂ evasion from boreal lakes: Revised estimate, drivers of spatial variability, and future projections. Global Change Biology, 2018, 24, 711-728.	9.5	56
29	Representation of dissolved organic carbon in the JULES land surface model (vn4.4_JULES-DOCM). Geoscientific Model Development, 2018, 11, 593-609.	3.6	21
30	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. Geoscientific Model Development, 2018, 11, 937-957.	3.6	52
31	ORCHIDEE-MICT (v8.4.1), aÂland surface model for the high latitudes: model description and validation. Geoscientific Model Development, 2018, 11, 121-163.	3.6	135
32	Global soil organic carbon removal by water erosion under climate change and land use change during AD 1850–2005. Biogeosciences, 2018, 15, 4459-4480.	3.3	68
33	Global perturbation of organic carbon cycling by river damming. Nature Communications, 2017, 8, 15347.	12.8	246
34	ORCHILEAK (revision 3875): a new model branch to simulate carbon transfers along the terrestrial–aquatic continuum of the Amazon basin. Geoscientific Model Development, 2017, 10, 3821-3859.	3.6	40
35	Reviews and syntheses: An empirical spatiotemporal description of the global surface–atmosphere carbon fluxes: opportunities and data limitations. Biogeosciences, 2017, 14, 3685-3703.	3.3	58
36	Seasonal response of air–water CO ₂ exchange along the land–ocean aquatic continuum of the northeast North American coast Biogeosciences, 2015, 12, 1447-1458.	3.3	34

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37	Spatial patterns in CO ₂ evasion from the global river network. Global Biogeochemical Cycles, 2015, 29, 534-554.	4.9	223
38	Carbon Leakage through the Terrestrial-aquatic Interface: Implications for the Anthropogenic CO2 Budget. Procedia Earth and Planetary Science, 2014, 10, 319-324.	0.6	9
39	Regionalized global budget of the CO ₂ exchange at the airâ€water interface in continental shelf seas. Global Biogeochemical Cycles, 2014, 28, 1199-1214.	4.9	160
40	A Brief Overview of the GLObal RIver Chemistry Database, GLORICH. Procedia Earth and Planetary Science, 2014, 10, 23-27.	0.6	111
41	Global chemical weathering and associated P-release — The role of lithology, temperature and soil properties. Chemical Geology, 2014, 363, 145-163.	3.3	215
42	Salt marshes in the silica budget of the North Sea. Continental Shelf Research, 2014, 82, 31-36.	1.8	1
43	Global carbon dioxide emissions from inland waters. Nature, 2013, 503, 355-359.	27.8	1,670
44	Modelling Estuarine Biogeochemical Dynamics: From the Local to the Global Scale. Aquatic Geochemistry, 2013, 19, 591-626.	1.3	54
45	What controls the spatial patterns of the riverine carbonate system? — A case study for North America. Chemical Geology, 2013, 337-338, 114-127.	3.3	47
46	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	12.9	937
47	Retention of dissolved silica within the fluvial system of the conterminous USA. Biogeochemistry, 2013, 112, 637-659.	3.5	16
48	Global multi-scale segmentation of continental and coastal waters from the watersheds to the continental margins. Hydrology and Earth System Sciences, 2013, 17, 2029-2051.	4.9	157
49	Assessing the nonconservative fluvial fluxes of dissolved organic carbon in North America. Journal of Geophysical Research, 2012, 117, .	3.3	57
50	Compatibility of space and time for modeling fluvial fluxes – A comparison. Applied Geochemistry, 2011, 26, S295-S297.	3.0	2
51	Atmospheric CO2 consumption by chemical weathering in North America. Geochimica Et Cosmochimica Acta, 2011, 75, 7829-7854.	3.9	59
52	Changes in dissolved silica mobilization into river systems draining North America until the period 2081–2100. Journal of Geochemical Exploration, 2011, 110, 31-39.	3.2	19
53	Dissolved silica mobilization in the conterminous USA. Chemical Geology, 2010, 270, 90-109.	3.3	67