Jens-Arne Subke

List of Publications by Year
in descending order

54 papers	4,950 citations	257450 24 h-index	182427 51 g-index
57 all docs	57 docs citations	57 times ranked	6523 citing authors

#	Article	IF	Citations
1	Net soil carbon balance in afforested peatlands and separating autotrophic and heterotrophic soil CO₂ effluxes. Biogeosciences, 2022, 19, 313-327.	3.3	8
2	Carbon stability in a Scottish lowland raised bog: potential legacy effects of historical land use and implications for global change. Soil Biology and Biochemistry, 2021, 154, 108124.	8.8	5
3	Shrub expansion in the Arctic may induce largeâ€scale carbon losses due to changes in plantâ€soil interactions. Plant and Soil, 2021, 463, 643-651.	3.7	28
4	Synergistic interactions between detritivores disappear under reduced rainfall. Ecology, 2021, 102, e03299.	3.2	6
5	Predicting Soil Respiration from Plant Productivity (NDVI) in a Sub-Arctic Tundra Ecosystem. Remote Sensing, 2021, 13, 2571.	4.0	6
6	Soil Chamber Measurements. Springer Handbooks, 2021, , 1603-1624.	0.6	5
7	Spatial patterns in soil organic matter dynamics are shaped by mycorrhizosphere interactions in a treeline forest. Plant and Soil, 2020, 447, 521-535.	3.7	8
8	Tree planting in organic soils does not result in net carbon sequestration on decadal timescales. Global Change Biology, 2020, 26, 5178-5188.	9.5	61
9	Detritivore conversion of litter into faeces accelerates organic matter turnover. Communications Biology, 2020, 3, 660.	4.4	54
10	Plant carbon allocation drives turnover of old soil organic matter in permafrost tundra soils. Global Change Biology, 2020, 26, 4559-4571.	9.5	31
11	Rhizosphere allocation by canopyâ€forming species dominates soil CO₂ efflux in a subarctic landscape. New Phytologist, 2020, 227, 1818-1830.	7.3	16
12	Editorial: Rhizosphere Functioning and Structural Development as Complex Interplay Between Plants, Microorganisms and Soil Minerals. Frontiers in Environmental Science, 2019, 7, .	3.3	19
13	Rhizosphere carbon supply accelerates soil organic matter decomposition in the presence of fresh organic substrates. Plant and Soil, 2019, 440, 473-490.	3.7	38
14	Rhizosphere activity and atmospheric methane concentrations drive variations of methane fluxes in a temperate forest soil. Soil Biology and Biochemistry, 2018, 116, 323-332.	8.8	24
15	Exploring drivers of litter decomposition in a greening Arctic: results from a transplant experiment across a treeline. Ecology, 2018, 99, 2284-2294.	3.2	38
16	Ecosystem carbon dynamics differ between tundra shrub types in the western Canadian Arctic. Environmental Research Letters, 2018, 13, 084014.	5.2	12
17	Abundant pre-industrial carbon detected in Canadian Arctic headwaters: implications for the permafrost carbon feedback. Environmental Research Letters, 2018, 13, 034024.	5.2	25
18	Multi-site calibration and validation of a net ecosystem carbon exchange model for croplands. Ecological Modelling, 2017, 363, 137-156.	2.5	23

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19	Slowed Biogeochemical Cycling in Sub-arctic Birch Forest Linked to Reduced Mycorrhizal Growth and Community Change after a Defoliation Event. Ecosystems, 2017, 20, 316-330.	3.4	29
20	Reverse engineering model structures for soil and ecosystem respiration: the potential of gene expression programming. Geoscientific Model Development, 2017, 10, 3519-3545.	3.6	7
21	Biogeochemistry of â€œpristineâ€• freshwater stream and lake systems in the western Canadian Arctic. Biogeochemistry, 2016, 130, 191-213.	3.5	17
22	Redox dynamics in the active layer of an Arctic headwater catchment; examining the potential for transfer of dissolved methane from soils to stream water. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2776-2792.	3.0	28
23	Rapid carbon turnover beneath shrub and tree vegetation is associated with low soil carbon stocks at a subarctic treeline. Global Change Biology, 2015, 21, 2070-2081.	9.5	110
24	Editorial "Ecosystems in transition: interactions and feedbacks with an emphasis on the initial development". Biogeosciences, 2014, 11, 195-200.	3.3	9
25	Temperature sensitivity of soil respiration rates enhanced by microbial community response. Nature, 2014, 513, 81-84.	27.8	528
26	The role of mosses in carbon uptake and partitioning in arctic vegetation. New Phytologist, 2013, 199, 163-175.	7.3	65
27	Ecosystemâ€•level controls on rootâ€•rhizosphere respiration. New Phytologist, 2013, 199, 339-351.	7.3	175
28	Greenhouse gas emissions from soil under changing environmental conditions. European Journal of Soil Science, 2013, 64, 547-549.	3.9	0
29	Biotic carbon feedbacks in a materially closed soilâ€“vegetationâ€“atmosphere system. Nature Climate Change, 2012, 2, 281-284.	18.8	19
30	Exploring the "overflow tap" theory: linking forest soil CO₂ fluxes and individual mycorrhizosphere components to photosynthesis. Biogeosciences, 2012, 9, 79-95.	3.3	85
31	The moisture response of soil heterotrophic respiration: interaction with soil properties. Biogeosciences, 2012, 9, 1173-1182.	3.3	224
32	Preface "Biotic interactions and biogeochemical processes in the soil environment". Biogeosciences, 2012, 9, 1823-1825.	3.3	2
33	Fast assimilate turnover revealed by in situ 13CO2 pulse-labelling in Subarctic tundra. Polar Biology, 2012, 35, 1209-1219.	1.2	17
34	A fieldâ€•compatible method for measuring alternative respiratory pathway activities <i>in vivo</i> using stable O₂ isotopes. Plant, Cell and Environment, 2012, 35, 1518-1532.	5.7	13
35	Application of nitrogen fertilizer to a boreal pine forest has a negative impact on the respiration of ectomycorrhizal hyphae. Plant and Soil, 2012, 352, 405-417.	3.7	22
36	Dynamics and pathways of autotrophic and heterotrophic soil CO₂ efflux revealed by forest girdling. Journal of Ecology, 2011, 99, 186-193.	4.0	80

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37	Turnover of recently assimilated carbon in arctic bryophytes. Oecologia, 2011, 167, 325-337.	2.0	13
38	On the â€˜temperature sensitivityâ€™ of soil respiration: Can we use the immeasurable to predict the unknown?. Soil Biology and Biochemistry, 2010, 42, 1653-1656.	8.8	150
39	Tracing photosynthetic isotope discrimination from leaves to soil. New Phytologist, 2010, 188, 309-311.	7.3	2
40	Reduction of forest soil respiration in response to nitrogen deposition. Nature Geoscience, 2010, 3, 315-322.	12.9	1,254
41	Experimental design: scaling up in time and space, and its statistical considerations. , 2010, , 34-48.		0
42	A new method for using ¹⁸O to trace ozone deposition. Rapid Communications in Mass Spectrometry, 2009, 23, 980-984.	1.5	3
43	A new stable isotope approach identifies the fate of ozone in plantâ€“soil systems. New Phytologist, 2009, 182, 85-90.	7.3	11
44	Shortâ€term dynamics of abiotic and biotic soilÂ¹³CO₂ effluxes after <i>in situ</i>Â¹³CO₂ pulse labelling of a boreal pine forest. New Phytologist, 2009, 183, 349-357.	7.3	93
45	Trends and methodological impacts in soil CO2 efflux partitioning: A metaanalytical review. Global Change Biology, 2006, 12, 921-943.	9.5	524
46	Sampling soil-derived CO2for analysis of isotopic composition: a comparison of different techniques. Isotopes in Environmental and Health Studies, 2006, 42, 57-65.	1.0	21
47	Does the temperature sensitivity of decomposition of soil organic matter depend upon water content, soil horizon, or incubation time?. Global Change Biology, 2005, 11, 1754-1767.	9.5	205
48	A new technique to measure soil CO2 efflux at constant CO2 concentration. Soil Biology and Biochemistry, 2004, 36, 1013-1015.	8.8	15
49	Feedback interactions between needle litter decomposition and rhizosphere activity. Oecologia, 2004, 139, 551-559.	2.0	193
50	Comparison of different chamber techniques for measuring soil CO2 efflux. Agricultural and Forest Meteorology, 2004, 123, 159-176.	4.8	420
51	Direct measurements of CO2 flux below a spruce forest canopy. Agricultural and Forest Meteorology, 2004, 126, 157-168.	4.8	30
52	Explaining temporal variation in soil CO2 efflux in a mature spruce forest in Southern Germany. Soil Biology and Biochemistry, 2003, 35, 1467-1483.	8.8	174
53	Whole-crown 13C-pulse labelling in a sub-arctic woodland to target canopy-specific carbon fluxes. Trees - Structure and Function, 0, , 1.	1.9	0
54	The Bizarre Role of Soil Animals in the Decomposition of Dead Leaves. Frontiers for Young Minds, 0, 10, .	0.8	0