John Couwenberg

List of Publications by Year in descending order

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Version: 2024-02-01

32 papers	1,757 citations	471509 17 h-index	454955 30 g-index
36 all docs	36 docs citations	36 times ranked	2326 citing authors

#	Article	IF	Citations
1	Greenhouse gas fluxes from tropical peatlands in southâ€east Asia. Global Change Biology, 2010, 16, 1715-1732.	9.5	361
2	Assessing greenhouse gas emissions from peatlands using vegetation as a proxy. Hydrobiologia, 2011, 674, 67-89.	2.0	200
3	Prompt rewetting of drained peatlands reduces climate warming despite methane emissions. Nature Communications, 2020, 11, 1644.	12.8	168
4	Development and carbon sequestration of tropical peat domes in south-east Asia: links to post-glacial sea-level changes and Holocene climate variability. Quaternary Science Reviews, 2011, 30, 999-1010.	3.0	164
5	Carbon storage and release in Indonesian peatlands since the last deglaciation. Quaternary Science Reviews, 2014, 97, 1-32.	3.0	122
6	Denial of longâ€term issues with agriculture on tropical peatlands will have devastating consequences. Global Change Biology, 2017, 23, 977-982.	9.5	114
7	Rewetting does not return drained fen peatlands to their old selves. Nature Communications, 2021, 12, 5693.	12.8	75
8	Self-organization in raised bog patterning: the origin of microtope zonation and mesotope diversity. Journal of Ecology, 2005, 93, 1238-1248.	4.0	70
9	The role of peatlands in climate regulation. , 2016, , 63-76.		59
10	A matter of dispersal: REVEALSinR introduces state-of-the-art dispersal models to quantitative vegetation reconstruction. Vegetation History and Archaeobotany, 2016, 25, 541-553.	2.1	52
11	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. Soil Systems, 2020, 4, 14.	2.6	45
12	Long-term rewetting of degraded peatlands restores hydrological buffer function. Science of the Total Environment, 2020, 749, 141571.	8.0	32
13	A radiative forcing analysis of tropical peatlands before and after their conversion to agricultural plantations. Global Change Biology, 2018, 24, 5518-5533.	9.5	27
14	A simulation model of mire patterning - revisited. Ecography, 2005, 28, 653-661.	4.5	26
15	Long-Term Rewetting of Three Formerly Drained Peatlands Drives Congruent Compositional Changes in Pro- and Eukaryotic Soil Microbiomes through Environmental Filtering. Microorganisms, 2020, 8, 550.	3.6	25
16	Multisensor data to derive peatland vegetation communities using a fixed-wing unmanned aerial vehicle. International Journal of Remote Sensing, 2019, 40, 9103-9125.	2.9	24
17	The extended downscaling approach: A new R-tool for pollen-based reconstruction of vegetation patterns. Holocene, 2017, 27, 1252-1258.	1.7	22
18	Wetter is Better: Rewetting of Minerotrophic Peatlands Increases Plant Production and Moves Them Towards Carbon Sinks in a Dry Year. Ecosystems, 2021, 24, 1093-1109.	3.4	21

#	Article	IF	Citations
19	Short-lived vegetational and environmental change during the Preboreal in the Biebrza Upper Basin (NE Poland). Quaternary Science Reviews, 2007, 26, 1975-1988.	3.0	19
20	MARCO POLO â€“ A new and simple tool for pollen-based stand-scale vegetation reconstruction. Holocene, 2017, 27, 321-330.	1.7	19
21	Pollen and macrofossils attributable to Fagopyrum in western Eurasia prior to the Late Medieval: An intercontinental mystery. Palaeogeography, Palaeoclimatology, Palaeoecology, 2015, 440, 1-21.	2.3	18
22	ROPES Reveals Past Land Cover and PPEs From Single Pollen Records. Frontiers in Earth Science, 2018, 6, .	1.8	17
23	Carbon accumulation in a permafrost polygon peatland: steady longâ€term rates in spite of shifts between dry and wet conditions. Global Change Biology, 2015, 21, 803-815.	9.5	14
24	Mass Balances of a Drained and a Rewetted Peatland: on Former Losses and Recent Gains. Soil Systems, 2020, 4, 16.	2.6	14
25	Saving soil carbon, greenhouse gas emissions, biodiversity and the economy: paludiculture as sustainable land use option in German fen peatlands. Regional Environmental Change, 2022, 22, .	2.9	12
26	Roots, Tissues, Cells and Fragmentsâ€”How to Characterize Peat from Drained and Rewetted Fens. Soil Systems, 2020, 4, 12.	2.6	11
27	Digital, Three-Dimensional Visualization of Root Systems in Peat. Soil Systems, 2020, 4, 13.	2.6	6
28	Pollen productivity estimates strongly depend on assumed pollen dispersal II: Extending the ERV model. Holocene, 2022, 32, 1233-1250.	1.7	6
29	International carbon policies as a new driver for peatland restoration. , 2016, , 291-313.		4
30	Comment on : Pollen-based reconstruction of Holocene land-cover in mountain regions: Evaluation of the landscape reconstruction algorithm in the Vicdessos valley, northern Pyrenees, France. Quaternary Science Reviews, 2020, 244, 106463.	3.0	2
31	Klimaschutz durch Schilfanbau. Ã–kologisches Wirtschaften, 2009, 24, .	0.2	1
32	From genes to landscapes: Pattern formation and selfâ€regulation in raised bogs with an example from Tierra del Fuego. Ecosphere, 2022, 13, .	2.2	1