Hans Joosten

List of Publications by Year in descending order

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Version: 2024-02-01

43 papers	2,186 citations	331670 21 h-index	265206 42 g-index
49 all docs	49 docs citations	49 times ranked	2655 citing authors

#	Article	IF	Citations
1	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
2	Recovering wetland biogeomorphic feedbacks to restore the worldâ€™s biotic carbon hotspots. Science, 2022, 376, eabn1479.	12.6	93
3	Axenic in vitro cultivation of 19 peat moss (Sphagnum L.) species as a resource for basic biology, biotechnology, and paludiculture. New Phytologist, 2021, 229, 861-876.	7.3	28
4	Great Vasyugan Mire: How the worldâ€™s largest peatland helps addressing the worldâ€™s largest problems. Ambio, 2021, 50, 2038-2049.	5.5	18
5	Assessing Wood and Soil Carbon Losses from a Forest-Peat Fire in the Boreo-Nemoral Zone. Forests, 2021, 12, 880.	2.1	9
6	Mires in Europeâ€”Regional Diversity, Condition and Protection. Diversity, 2021, 13, 381.	1.7	36
7	Wet peatland utilisation for climate protection â€“ An international survey of paludiculture innovation. Cleaner Engineering and Technology, 2021, 5, 100305.	4.0	21
8	Rewetting does not return drained fen peatlands to their old selves. Nature Communications, 2021, 12, 5693.	12.8	75
9	Addressing Peatland Rewetting in Russian Federation Climate Reporting. Land, 2021, 10, 1200.	2.9	8
10	Multispectral satellite based monitoring of land cover change and associated fire reduction after large-scale peatland rewetting following the 2010 peat fires in Moscow Region (Russia). Ecological Engineering, 2020, 158, 106044.	3.6	18
11	Short-distance distribution patterns of testate amoebae in an Arctic ice-wedge polygon mire (Berelekh-Indigirka lowlands, NE Siberia). Polar Biology, 2020, 43, 1321-1340.	1.2	2
12	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. Soil Systems, 2020, 4, 14.	2.6	45
13	Sphagnum growth under N saturation: interactive effects of water level and P or K fertilization. Plant Biology, 2020, 22, 394-403.	3.8	13
14	Prompt rewetting of drained peatlands reduces climate warming despite methane emissions. Nature Communications, 2020, 11, 1644.	12.8	168
15	Nutrient dynamics of Sphagnum farming on rewetted bog grassland in NW Germany. Science of the Total Environment, 2020, 726, 138470.	8.0	13
16	Seven years of spider community succession in a Sphagnum farm. Journal of Arachnology, 2020, 48, .	0.5	4
17	A robust vegetation-based elevation transfer method for reconstructing Arctic polygon mire palaeo-microtopography. Palaeogeography, Palaeoclimatology, Palaeoecology, 2019, 522, 12-27.	2.3	1
18	Archive value: measuring the palaeo-information content of peatlands in a conservation and compensation perspective. International Journal of Biodiversity Science, Ecosystem Services & Management, 2018, 14, 209-220.	2.9	6

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19	SOC Stock Changes and Greenhouse Gas Emissions Following Tropical Land Use Conversions to Plantation Crops on Mineral Soils, with a Special Focus on Oil Palm and Rubber Plantations. Agriculture (Switzerland), 2018, 8, 133.	3.1	19
20	Vegetation, recent pollen deposition, and distribution of some non-pollen palynomorphs in a degrading ice-wedge polygon mire complex near Pokhodsk (NE Siberia), including size-frequency analyses of pollen attributable to Betula. Review of Palaeobotany and Palynology, 2017, 238, 122-143.	1.5	15
21	MARCO POLO â€“ A new and simple tool for pollen-based stand-scale vegetation reconstruction. Holocene, 2017, 27, 321-330.	1.7	19
22	Peatland biodiversity and its restoration. , 2016, , 44-62.		7
23	The role of peatlands in climate regulation. , 2016, , 63-76.		59
24	4000 Years of Changing Wetness in a Permafrost Polygon Peatland (Kytalyk, NE Siberia): A Comparative Highâ€Resolution Multiâ€Proxy Study. Permafrost and Periglacial Processes, 2016, 27, 76-95.	3.4	28
25	Sphagnum farming: the promised land for peat bog species?. Biodiversity and Conservation, 2015, 24, 1989-2009.	2.6	14
26	Forest dynamics and tipâ€up pools drive pulses of high carbon accumulation rates in a tropical peat dome in Borneo (Southeast Asia). Journal of Geophysical Research G: Biogeosciences, 2015, 120, 617-640.	3.0	56
27	Vegetation patterns, pollen deposition and distribution of non-pollen palynomorphs in an ice-wedge polygon near Kytalyk (NE Siberia), with some remarks on Arctic pollen morphology. Polar Biology, 2014, 37, 1393-1412.	1.2	20
28	Investing in nature: Developing ecosystem service markets for peatland restoration. Ecosystem Services, 2014, 9, 54-65.	5.4	98
29	Younger <scp>D</scp>ryas cold stage vegetation patterns of central <scp>E</scp>urope â€“ climate, soil and relief controls. Boreas, 2012, 41, 391-407.	2.4	45
30	Pollen and non-pollen palynomorphs as tools for identifying alder carr deposits: A surface sample study from NE-Germany. Review of Palaeobotany and Palynology, 2012, 186, 38-57.	1.5	23
31	Expanding NPP analysis to eutrophic and forested sites: Significance of NPPs in a Holocene wood peat section (NE Germany). Review of Palaeobotany and Palynology, 2012, 186, 22-37.	1.5	19
32	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
33	Short-term dynamics of a low-centred ice-wedge polygon near Chokurdakh (NE Yakutia, NE Siberia) and climate change during the last ca 1250 years. Quaternary Science Reviews, 2011, 30, 3013-3031.	3.0	41
34	Assessing greenhouse gas emissions from peatlands using vegetation as a proxy. Hydrobiologia, 2011, 674, 67-89.	2.0	200
35	Greenhouse gas fluxes from tropical peatlands in southâ€east Asia. Global Change Biology, 2010, 16, 1715-1732.	9.5	361
36	Vegetation patterns, recent pollen deposition and distribution of nonâ€pollen palynomorphs in a polygon mire near Chokurdakh (NE Yakutia, NE Siberia). Boreas, 2009, 38, 39-58.	2.4	25

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37	Patterns in vegetation composition, surface height and thaw depth in polygon mires in the Yakutian Arctic (NE Siberia): a microtopographical characterisation of the active layer. Permafrost and Periglacial Processes, 2009, 20, 357-368.	3.4	50
38	DAMOCLES: a DAshing MOnolith Cutter for fine sectioning of peats and sediments into LargE Slices. Boreas, 2007, 36, 76-81.	2.4	17
39	DAMOCLES: a DAshing MOnolith Cutter for fine sectioning of peats and sediments into LargE Slices. Boreas, 2007, 36, 76-81.	2.4	21
40	Vegetation characteristics and eco-hydrological processes in a pristine mire in the Ob River valley (Western Siberia). Plant Ecology, 2007, 193, 131-145.	1.6	27
41	Non-pollen palynomorphs from modern Alder carrs and their potential for interpreting microfossil data from peat. Review of Palaeobotany and Palynology, 2006, 141, 7-31.	1.5	54
42	Palaeoecological analysis of Alnus wood peats with special attention to non-pollen palynomorphs. Review of Palaeobotany and Palynology, 2006, 141, 33-51.	1.5	43
43	Self-organization in raised bog patterning: the origin of microtope zonation and mesotope diversity. Journal of Ecology, 2005, 93, 1238-1248.	4.0	70