Nicole Wrage-MÃ¶nnig

List of Publications by Year
in descending order

79	6,845	30	75
papers	citations	h-index	g-index

159358

74018

84	84	84	6832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of nitrifier denitrification in the production of nitrous oxide. Soil Biology and Biochemistry, 2001, 33, 1723-1732.	4.2	1,484
2	Soils, a sink for N2O? A review. Global Change Biology, 2007, 13, 1-17.	4.2	1,129
3	Nitrifier denitrification as a distinct and significant source of nitrous oxide from soil. Soil Biology and Biochemistry, 2011, 43, 174-178.	4.2	390
4	Biochar, soil and land-use interactions that reduce nitrate leaching and N2O emissions: A meta-analysis. Science of the Total Environment, 2019, 651, 2354-2364.	3.9	339
5	Feedstock choice, pyrolysis temperature and type influence biochar characteristics: a comprehensive meta-data analysis review. Biochar, 2020, 2, 421-438.	6.2	333
6	The role of nitrifier denitrification in the production of nitrous oxide revisited. Soil Biology and Biochemistry, 2018, 123, A3-A16.	4.2	293
7	Trends in Global Nitrous Oxide Emissions from Animal Production Systems. Nutrient Cycling in Agroecosystems, 2005, 72, 51-65.	1.1	290
8	A novel dual-isotope labelling method for distinguishing between soil sources of N2O. Rapid Communications in Mass Spectrometry, 2005, 19, 3298-3306.	0.7	163
9	BIOCHAR AS A TOOL TO REDUCE THE AGRICULTURAL GREENHOUSE-GAS BURDEN â€“ KNOWNS, UNKNOWNS AND FUTURE RESEARCH NEEDS. Journal of Environmental Engineering and Landscape Management, 2017, 25, 114-139.	0.4	144
10	Nitrifier denitrification can be a source of N₂O from soil: a revised approach to the dualâ€isotope labelling method. European Journal of Soil Science, 2010, 61, 759-772.	1.8	133
11	Nitrous oxide production in grassland soils: assessing the contribution of nitrifier denitrification. Soil Biology and Biochemistry, 2004, 36, 229-236.	4.2	128
12	Future consequences and challenges for dairy cow production systems arising from climate change in Central Europe â€“ a review. Animal, 2013, 7, 843-859.	1.3	125
13	Oxygen exchange between (de)nitrification intermediates and H₂O and its implications for source determination of NO and N₂O: a review. Rapid Communications in Mass Spectrometry, 2007, 21, 3569-3578.	0.7	116
14	Africaâ€™s wooden elephant: the baobab tree (Adansonia digitata L.) in Sudan and Kenya: a review. Genetic Resources and Crop Evolution, 2016, 63, 377-399.	0.8	98
15	Distinguishing sources of N2O in European grasslands by stable isotope analysis. Rapid Communications in Mass Spectrometry, 2004, 18, 1201-1207.	0.7	86
16	Oxygen exchange with water alters the oxygen isotopic signature of nitrate in soil ecosystems. Soil Biology and Biochemistry, 2011, 43, 1180-1185.	4.2	81
17	Grazing intensity affects insect diversity via sward structure and heterogeneity in a longâ€term experiment. Journal of Applied Ecology, 2014, 51, 968-977.	1.9	78
18	Rewetting does not return drained fen peatlands to their old selves. Nature Communications, 2021, 12, 5693.	5.8	75

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19	Emission of gaseous nitrogen oxides from an extensively managed grassland in NE Bavaria, Germany. Biogeochemistry, 2003, 63, 249-267.	1.7	74
20	The ¹⁸O signature of biogenic nitrous oxide is determined by O exchange with water. Rapid Communications in Mass Spectrometry, 2009, 23, 104-108.	0.7	71
21	Dual isotope and isotopomer signatures of nitrous oxide from fungal denitrification - a pure culture study. Rapid Communications in Mass Spectrometry, 2014, 28, 1893-1903.	0.7	71
22	Phytodiversity of temperate permanent grasslands: ecosystem services for agriculture and livestock management for diversity conservation. Biodiversity and Conservation, 2011, 20, 3317-3339.	1.2	66
23	Oxygen exchange between nitrogen oxides and H2O can occur during nitrifier pathways. Soil Biology and Biochemistry, 2009, 41, 1632-1641.	4.2	64
24	Acetylene and oxygen as inhibitors of nitrous oxide production in Nitrosomonas europaea and Nitrosospira briensis: a cautionary tale. FEMS Microbiology Ecology, 2004, 47, 13-18.	1.3	63
25	Biochar's role as an electron shuttle for mediating soil N2O emissions. Soil Biology and Biochemistry, 2019, 133, 94-96.	4.2	61
26	Emission of gaseous nitrogen oxides from an extensively managed grassland in NE Bavaria, Germany.. Biogeochemistry, 2003, 63, 229-247.	1.7	51
27	From Understanding to Sustainable Use of Peatlands: The WETSCAPES Approach. Soil Systems, 2020, 4, 14.	1.0	45
28	Assessment of vegetation degradation in mountainous pastures of the Western Tien-Shan, Kyrgyzstan, using eMODIS NDVI. Ecological Indicators, 2018, 95, 527-543.	2.6	40
29	Drought stress resistance and resilience of permanent grasslands are shaped by functional group composition and N fertilization. Agriculture, Ecosystems and Environment, 2017, 236, 52-60.	2.5	39
30	Response of nitrogen oxide emissions to grazer species and plant species composition in temperate agricultural grassland. Agriculture, Ecosystems and Environment, 2012, 151, 34-43.	2.5	37
31	Source Determination of Nitrous Oxide Based on Nitrogen and Oxygen Isotope Tracing. Methods in Enzymology, 2011, 496, 139-160.	0.4	36
32	Forage selectivity by cattle and sheep coâ€grazing swards differing in plant species diversity. Grass and Forage Science, 2018, 73, 320-329.	1.2	34
33	Manipulating the species composition of permanent grasslandsâ€”A new approach to biodiversity experiments. Basic and Applied Ecology, 2012, 13, 1-9.	1.2	32
34	Electrodes Donate Electrons for Nitrate Reduction in a Soil Matrix via DNRA and Denitrification. Environmental Science & Technology, 2019, 53, 2002-2012.	4.6	31
35	Biochar reduces the efficiency of nitrification inhibitor 3,4-dimethylpyrazole phosphate (DMPP) mitigating N2O emissions. Scientific Reports, 2019, 9, 2346.	1.6	31
36	Rewetting strategies to reduce nitrous oxide emissions from European peatlands. Communications Earth & Environment, 2020, 1, .	2.6	29

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37	Behavioral patterns of (co-)grazing cattle and sheep on swards differing in plant diversity. Applied Animal Behaviour Science, 2017, 191, 17-23.	0.8	27
38	Diverse Swards and Mixed-Grazing of Cattle and Sheep for Improved Productivity. Frontiers in Sustainable Food Systems, 2020, 3, .	1.8	27
39	Herbage mass and nutritive value of herbage of extensively managed temperate grasslands along a gradient of shrub encroachment. Grass and Forage Science, 2009, 64, 246-254.	1.2	20
40	Feeding goats on scrubby Mexican rangeland and pasteurization: influences on milk and artisan cheese quality. Tropical Animal Health and Production, 2010, 42, 1127-1134.	0.5	19
41	Yield and yield stability in mixtures of productive grassland species: Does species number or functional group composition matter?. Grassland Science, 2012, 58, 94-100.	0.6	18
42	Rice root Fe plaque enhances paddy soil N2O emissions via Fe(II) oxidation-coupled denitrification. Soil Biology and Biochemistry, 2019, 139, 107610.	4.2	18
43	Herbage growth rates on heterogeneous swards as influenced by swardâ€height classes. Grass and Forage Science, 2009, 64, 12-18.	1.2	17
44	Vegetation height of patch more important for phytodiversity than that of paddock. Agriculture, Ecosystems and Environment, 2012, 155, 111-116.	2.5	17
45	Biochar research activities and their relation to development and environmental quality. A meta-analysis. Agronomy for Sustainable Development, 2017, 37, 1.	2.2	17
46	Effects of nitrate and water content on acetylene inhibition technique bias when analysing soil denitrification rates under an aerobic atmosphere. Geoderma, 2019, 334, 33-36.	2.3	17
47	Implications of Spatial Habitat Diversity on Diet Selection of European Bison and Przewalskiâ€™s Horses in a Rewilding Area. Diversity, 2019, 11, 63.	0.7	16
48	Electron shuttle potential of biochar promotes dissimilatory nitrate reduction to ammonium in paddy soil. Soil Biology and Biochemistry, 2022, 172, 108760.	4.2	16
49	Fungal oxygen exchange between denitrification intermediates and water. Rapid Communications in Mass Spectrometry, 2014, 28, 377-384.	0.7	15
50	Drought tolerance is determined by species identity and functional group diversity rather than by species diversity within multi-species swards. European Journal of Agronomy, 2020, 119, 126116.	1.9	15
51	Relationship between Remote Sensing Data, Plant Biomass and Soil Nitrogen Dynamics in Intensively Managed Grasslands under Controlled Conditions. Sensors, 2017, 17, 1483.	2.1	14
52	Forage legumes for future dry climates: Lower relative biomass losses of minor forage legumes compared toTrifolium repensunder conditions of periodic drought stress. Journal of Agronomy and Crop Science, 2019, 205, 460-469.	1.7	14
53	Mass Balances of a Drained and a Rewetted Peatland: on Former Losses and Recent Gains. Soil Systems, 2020, 4, 16.	1.0	14
54	Identification and verification of key functional groups of biochar influencing soil N2O emission. Biology and Fertility of Soils, 2021, 57, 447-456.	2.3	14

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55	Sward Composition and Grazer Species Effects on Nutritive Value and Herbage Accumulation. Agronomy Journal, 2012, 104, 497-506.	0.9	13
56	Enhancement of subsoil denitrification using an electrode as an electron donor. Soil Biology and Biochemistry, 2017, 115, 511-515.	4.2	13
57	Potential short-term losses of N₂O and N₂ from high concentrations of biogas digestate in arable soils. Soil, 2017, 3, 161-176.	2.2	13
58	Co-application of a biochar and an electric potential accelerates soil nitrate removal while decreasing N2O emission. Soil Biology and Biochemistry, 2020, 149, 107946.	4.2	12
59	Farmers' Decision-making and Land Use Changes in Kyrgyz Agropastoral Systems. Mountain Research and Development, 2016, 36, 506-517.	0.4	10
60	Comparing modified substrate-induced respiration with selective inhibition (SIRIN) and N₂O isotope approaches to estimate fungal contribution to denitrification in three arable soils under anoxic conditions. Biogeosciences, 2021, 18, 4629-4650.	1.3	10
61	Long-term vegetation change in the Western Tien-Shan Mountain pastures, Central Asia, driven by a combination of changing precipitation patterns and grazing pressure. Science of the Total Environment, 2021, 781, 146720.	3.9	9
62	N2 production via aerobic pathways may play a significant role in nitrogen cycling in upland soils. Soil Biology and Biochemistry, 2017, 108, 36-40.	4.2	8
63	Isotopic Techniques to Measure N2O, N2 and Their Sources. , 2021, , 213-301.		8
64	Rangeland condition in relation to environmental variables, grazing intensity and livestock owners' perceptions in semi-arid rangeland in western Iran. Rangeland Journal, 2010, 32, 367.	0.4	8
65	Isotopic composition of soil, vegetation or cattle hair no suitable indicator of nitrogen balances in permanent pasture. Nutrient Cycling in Agroecosystems, 2011, 90, 189-199.	1.1	7
66	Emissions of CO2 and N2 O from a pasture soil from Madagascar-Simulating conversion to direct-seeding mulch-based cropping in incubations with organic and inorganic inputs. Journal of Plant Nutrition and Soil Science, 2014, 177, 360-368.	1.1	7
67	Perturbation-free measurement of in situ di-nitrogen emissions from denitrification in nitrate-rich aquatic ecosystems. Water Research, 2017, 109, 94-101.	5.3	7
68	Rice root Fe plaque enhances oxidation of microbially available organic carbon via Fe(III) reduction-coupled microbial respiration. Soil Biology and Biochemistry, 2022, 167, 108568.	4.2	7
69	Effects of herbicide application to control sward composition in different management variants. International Journal of Biodiversity Science, Ecosystem Services & Management, 2013, 9, 155-165.	2.9	6
70	Canopy Cover and Herbage Accumulation of Fourteen Grassland Species When Stocked with Chickens. Agronomy Journal, 2013, 105, 727-734.	0.9	6
71	Climate-Smart Agriculture Practices for Mitigating Greenhouse Gas Emissions. , 2021, , 303-328.		6
72	Development and Assessment of a Body Condition Score Scheme for European Bison (Bison bonasus). Animals, 2018, 8, 163.	1.0	5

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73	Light availability is improved for legume species grown in moderately N-fertilized mixtures with non-legume species. Basic and Applied Ecology, 2015, 16, 403-412.	1.2	3
74	Biomass production of <i>Lolioâ€Cynosuretum</i> grassland is not increased by plantâ€species richness. Journal of Plant Nutrition and Soil Science, 2014, 177, 613-623.	1.1	2
75	Application methods of tracers for N₂O source determination lead to inhomogeneous distribution in field plots. Analytical Science Advances, 2020, 1, 221-232.	1.2	2
76	Greenhouse Gases from Agriculture. , 2021, , 1-10.		2
77	The phosphorus dilemma in organically farmed grasslands â€“ are legume presence and phytodiversity incompatible?. Ecosystems and People, 2019, 15, 61-73.	1.3	1
78	Stable isotope niche segregation between rare topi antelope (Damaliscus lunatus korrigum) and other sympatric bulk grazers in Pendjari Biosphere Reserve (Northern Benin): Implication for topi conservation. Global Ecology and Conservation, 2020, 22, e00918.	1.0	1
79	Understanding the Ecology of Restored Fen Peatlands for Protection and Sustainable Use. Soil Systems, 2020, 4, 24.	1.0	0