

Wilfried Winiwarter

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/1019974/wilfried-winiwarter-publications-by-year.pdf>

Version: 2024-04-16

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

130
papers

8,359
citations

35
h-index

91
g-index

133
ext. papers

10,001
ext. citations

7.7
avg, IF

5.83
L-index

#	Paper	IF	Citations
130	Focus on reactive nitrogen and the UN sustainable development goals. <i>Environmental Research Letters</i> , 2022 , 17, 050401	6.2	
129	Abating ammonia is more cost-effective than nitrogen oxides for mitigating PM air pollution. <i>Science</i> , 2021 , 374, 758-762	33.3	24
128	Magnitude and Uncertainty of Nitrous Oxide Emissions From North America Based on Bottom-Up and Top-Down Approaches: Informing Future Research and National Inventories. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL095264	4.9	1
127	Food and feed trade has greatly impacted global land and nitrogen use efficiencies over 1961-2017. <i>Nature Food</i> , 2021 , 2, 780-791	14.4	1
126	Improved Estimates of Ammonia Emissions from Global Croplands. <i>Environmental Science & Technology</i> , 2021 , 55, 1329-1338	10.3	23
125	Gridded soil surface nitrogen surplus on grazing and agricultural land: Impact of land use maps. <i>Environmental Research Communications</i> , 2021 , 3, 055003	3.1	2
124	The consolidated European synthesis of CH ₄ and N ₂ O emissions for the European Union and United Kingdom: 1990-2017. <i>Earth System Science Data</i> , 2021 , 13, 2307-2362	10.5	9
123	Agroecological measures and circular economy strategies to ensure sufficient nitrogen for sustainable farming. <i>Global Environmental Change</i> , 2021 , 69, 102313	10.1	4
122	Historical trends of riverine nitrogen loading from land to the East China Sea: a model-based evaluation. <i>Environmental Research Communications</i> , 2021 , 3, 085005	3.1	1
121	Decoupling between ammonia emission and crop production in China due to policy interventions. <i>Global Change Biology</i> , 2021 , 27, 5877-5888	11.4	3
120	Nitrogen budgets in Japan from 2000 to 2015: Decreasing trend of nitrogen loss to the environment and the challenge to further reduce nitrogen waste. <i>Environmental Pollution</i> , 2021 , 286, 117559	9.3	7
119	Strategies to reduce ammonia emissions from livestock and their cost-benefit analysis: A case study of Sheyang county. <i>Environmental Pollution</i> , 2021 , 290, 118045	9.3	1
118	Food systems in a zero-deforestation world: Dietary change is more important than intensification for climate targets in 2050. <i>Science of the Total Environment</i> , 2020 , 735, 139353	10.2	25
117	Building on Paris: integrating nitrous oxide mitigation into future climate policy. <i>Current Opinion in Environmental Sustainability</i> , 2020 , 47, 7-12	7.2	5
116	Gaps and opportunities in nitrogen pollution policies around the world. <i>Nature Sustainability</i> , 2020 , 3, 956-963	22.1	32
115	Greenhouse gas implications of mobilizing agricultural biomass for energy: a reassessment of global potentials in 2050 under different food-system pathways. <i>Environmental Research Letters</i> , 2020 , 15, 034066	6.2	15
114	Nitrogen futures in the shared socioeconomic pathways 4. <i>Global Environmental Change</i> , 2020 , 61, 102029	29.1	18

113	Global Challenges for Nitrogen Science-Policy Interactions: Towards the International Nitrogen Management System (INMS) and Improved Coordination Between Multi-lateral Environmental Agreements 2020 , 517-560		1
112	Urban nitrogen budgets: flows and stock changes of potentially polluting nitrogen compounds in cities and their surroundings a review. Journal of Integrative Environmental Sciences, 2020 , 17, 57-71	3	1
111	The INI European Regional Nitrogen Centre: Concepts and Vision 2020 , 445-455		1
110	European anthropogenic AFOLU greenhouse gas emissions: a review and benchmark data. <i>Earth System Science Data</i> , 2020 , 12, 961-1001	10.5	20
109	A comprehensive quantification of global nitrous oxide sources and sinks. <i>Nature</i> , 2020 , 586, 248-256	50.4	270
108	Reducing global air pollution: the scope for further policy interventions. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020 , 378, 20190331	3	34
107	Global Gridded Nitrogen Indicators: Influence of Crop Maps. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2020GB006634	30.5	6634
106	Spatial Planning Needed to Drastically Reduce Nitrogen and Phosphorus Surpluses in China's Agriculture. <i>Environmental Science & Technology</i> , 2020 , 54, 11894-11904	10.3	13
105	Data-driven estimates of global nitrous oxide emissions from croplands. <i>National Science Review</i> , 2020 , 7, 441-452	10.8	42
104	Further Improvement of Air Quality in China Needs Clear Ammonia Mitigation Target. <i>Environmental Science & Technology</i> , 2019 , 53, 10542-10544	10.3	17
103	Reducing Ammonia Emissions from Dairy Cattle Production via Cost-Effective Manure Management Techniques in China. <i>Environmental Science & Technology</i> , 2019 , 53, 11840-11848	10.3	14
102	Estimating nitrogen flows of agricultural soils at a landscape level - A modelling study of the Upper Enns Valley, a long-term socio-ecological research region in Austria. <i>Science of the Total Environment</i> , 2019 , 665, 275-289	10.2	8
101	Acceleration of global N ₂ O emissions seen from two decades of atmospheric inversion. <i>Nature Climate Change</i> , 2019 , 9, 993-998	21.4	106
100	Global soil nitrous oxide emissions since the preindustrial era estimated by an ensemble of terrestrial biosphere models: Magnitude, attribution, and uncertainty. <i>Global Change Biology</i> , 2019 , 25, 640-659	11.4	111
99	Evaluating the potential of dietary crude protein manipulation in reducing ammonia emissions from cattle and pig manure: A meta-analysis. <i>Nutrient Cycling in Agroecosystems</i> , 2018 , 110, 161-175	3.3	27
98	The Global N ₂ O Model Intercomparison Project. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1231-1251	6.1	71
97	Changing Agricultural NH ₃ Emissions Since 1979: The Impact on N Deposition and Health Effects Across Europe and the Potential for Further Reductions in the Future. <i>Springer Proceedings in Complexity</i> , 2018 , 477-482	0.3	
96	Greenhouse Gas and Ammonia Emissions from Different Stages of Liquid Manure Management Chains: Abatement Options and Emission Interactions. <i>Journal of Environmental Quality</i> , 2018 , 47, 30-41	3.4	41

95	Technical opportunities to reduce global anthropogenic emissions of nitrous oxide. <i>Environmental Research Letters</i> , 2018 , 13, 014011	6.2	41
94	Managing a forgotten greenhouse gas under existing U.S. law: An interdisciplinary analysis. <i>Environmental Science and Policy</i> , 2017 , 67, 44-51	6.2	9
93	Mitigating ammonia emission from agriculture reduces PM pollution in the Hai River Basin in China. <i>Science of the Total Environment</i> , 2017 , 609, 1152-1160	10.2	41
92	The Contribution of Non-CO2 Greenhouse Gas Mitigation to Achieving Long-Term Temperature Goals. <i>Energies</i> , 2017 , 10, 602	3.1	16
91	Greenhouse gas scenarios for Austria: a comparison of different approaches to emission trends. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2016 , 21, 1181-1196	3.9	2
90	Adapting feeding methods for less nitrogen pollution from pig and dairy cattle farming: abatement costs and uncertainties. <i>Nutrient Cycling in Agroecosystems</i> , 2016 , 104, 201-220	3.3	7
89	From farm to fork A life cycle assessment of fresh Austrian pork. <i>Journal of Cleaner Production</i> , 2016 , 116, 80-89	10.3	30
88	Temporal changes of inorganic ion deposition in the seasonal snow cover for the Austrian Alps (1983-2014). <i>Atmospheric Environment</i> , 2016 , 132, 141-152	5.3	8
87	Synthesis and review: Tackling the nitrogen management challenge: from global to local scales. <i>Environmental Research Letters</i> , 2016 , 11, 120205	6.2	48
86	Uncertainty, cost-effectiveness and environmental safety of robust carbon trading: integrated approach 2015 , 183-196		
85	Integrated model for robust emission trading under uncertainties: Cost-effectiveness and environmental safety. <i>Technological Forecasting and Social Change</i> , 2015 , 98, 234-244	9.5	8
84	Analyzing consumer-related nitrogen flows: A case study on food and material use in Austria. <i>Resources, Conservation and Recycling</i> , 2015 , 101, 203-211	11.9	4
83	Scenarios of livestock related greenhouse gas emissions in Austria. <i>Journal of Integrative Environmental Sciences</i> , 2015 , 12, 107-119	3	2
82	Nitrogen - A Crucial Element in a Complex World. <i>Gaia</i> , 2015 , 24, 196-197	1.4	
81	Estimating Costs and Potential for Reduction of Ammonia Emissions from Agriculture in the GAINS Model 2015 , 233-261		5
80	A European perspective of innovations towards mitigation of nitrogen-related greenhouse gases. <i>Current Opinion in Environmental Sustainability</i> , 2014 , 9-10, 37-45	7.2	10
79	The nitrogen footprint of food products and general consumption patterns in Austria. <i>Food Policy</i> , 2014 , 49, 128-136	5	76
78	Uncertainty, cost-effectiveness and environmental safety of robust carbon trading: integrated approach. <i>Climatic Change</i> , 2014 , 124, 633-646	4.5	10

77	Green economy thinking and the control of nitrous oxide emissions. <i>Environmental Development</i> , 2014 , 9, 76-85	4.1	17
76	Farming for a Better Climate (FarmClim). Design of an Inter- and Transdisciplinary Research Project Aiming to Address the Science-Policy Gap <i>Gaia</i> , 2014 , 23, 118-124	1.4	5
75	Nitrogen footprints: past, present and future. <i>Environmental Research Letters</i> , 2014 , 9, 115003	6.2	161
74	Land use and land use change in agricultural life cycle assessments and carbon footprints - the case for regionally specific land use change versus other methods. <i>Journal of Cleaner Production</i> , 2014 , 73, 31-39	10.3	34
73	Estimating environmentally relevant fixed nitrogen demand in the 21st century. <i>Climatic Change</i> , 2013 , 120, 889-901	4.5	25
72	Assessing Present and Future Ozone Hazards to Natural Forests in the Alpine Area [Comparison of a Wide Scale Mapping Technique with Local Passive Sampler Measurements 2013 ,		1
71	Sustainable Agriculture in China: Estimation and Reduction of Nitrogen Impacts. <i>Lecture Notes in Economics and Mathematical Systems</i> , 2012 , 327-350	0.4	
70	EU low carbon roadmap 2050: Potentials and costs for mitigation of non-CO2 greenhouse gas emissions. <i>Energy Strategy Reviews</i> , 2012 , 1, 97-108	9.8	35
69	The role of N2O derived from crop-based biofuels, and from agriculture in general, in Earth's climate. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012 , 367, 1169-74	5.8	83
68	Implications of population growth and urbanization on agricultural risks in China. <i>Population and Environment</i> , 2012 , 33, 243-258	4	11
67	Sectoral marginal abatement cost curves: implications for mitigation pledges and air pollution co-benefits for Annex I countries. <i>Sustainability Science</i> , 2012 , 7, 169-184	6.4	29
66	The role of N-gases (N2O, NOx, NH3) in cost-effective strategies to reduce greenhouse gas emissions and air pollution in Europe. <i>Current Opinion in Environmental Sustainability</i> , 2011 , 3, 438-445	7.2	23
65	The European nitrogen cycle: commentary on Schulze et al., <i>Global Change Biology</i> (2010) 16, pp. 1451-1469. <i>Global Change Biology</i> , 2011 , 17, 2754-2757	11.4	
64	Too much of a good thing. <i>Nature</i> , 2011 , 472, 159-61	50.4	583
63	Developing spatially stratified N(2)O emission factors for Europe. <i>Environmental Pollution</i> , 2011 , 159, 3223-32	9.3	57
62	Cost-effective control of air quality and greenhouse gases in Europe: Modeling and policy applications. <i>Environmental Modelling and Software</i> , 2011 , 26, 1489-1501	5.2	478
61	Emission mitigation potentials and costs for non-CO2 greenhouse gases in Annex-I countries according to the GAINS model. <i>Journal of Integrative Environmental Sciences</i> , 2010 , 7, 235-243	3	9
60	Modeling current and future N2O emissions from agriculture in China and the effect of nitrification inhibitors. <i>Journal of Integrative Environmental Sciences</i> , 2010 , 7, 301-308	3	1

59	Integrated modeling framework for assessment and mitigation of nitrogen pollution from agriculture: Concept and case study for China. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 136, 116-124	5.7	45
58	Statistical dependence in input data of national greenhouse gas inventories: effects on the overall inventory uncertainty. <i>Climatic Change</i> , 2010 , 103, 19-36	4.5	28
57	Benefits of dealing with uncertainty in greenhouse gas inventories: introduction. <i>Climatic Change</i> , 2010 , 103, 3-18	4.5	21
56	Benefits of dealing with uncertainty in greenhouse gas inventories: introduction 2010 , 3-18		2
55	Statistical dependence in input data of national greenhouse gas inventories: effects on the overall inventory uncertainty 2010 , 19-36		3
54	Quantifying emissions of primary biological aerosol particle mass in Europe. <i>Atmospheric Environment</i> , 2009 , 43, 1403-1409	5.3	70
53	Methane release from wetlands and watercourses in Europe. <i>Atmospheric Environment</i> , 2009 , 43, 1421-1429	5.3	76
52	Quality considerations of European PM emission inventories. <i>Atmospheric Environment</i> , 2009 , 43, 3819-3828	5.3	20
51	Nitrous oxide's impact on net greenhouse gas savings from biofuels: life-cycle analysis comparison. <i>International Journal of Biotechnology</i> , 2009 , 11, 60	0	11
50	Atmospheric N ₂ O Releases from Biofuel Production Systems: A Major Factor Against CO ₂ Emission Savings—A Global View 2009 , 67-70		1
49	How a century of ammonia synthesis changed the world. <i>Nature Geoscience</i> , 2008 , 1, 636-639	18.3	1967
48	Source apportionment of particulate matter in Europe: A review of methods and results. <i>Journal of Aerosol Science</i> , 2008 , 39, 827-849	4.3	674
47	N ₂ O release from agro-biofuel production negates global warming reduction by replacing fossil fuels. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 389-395	6.8	701
46	Natural emissions of methane from geothermal and volcanic sources in Europe. <i>Journal of Volcanology and Geothermal Research</i> , 2007 , 165, 76-86	2.8	59
45	National Greenhouse Gas Inventories: Understanding Uncertainties versus Potential for Improving Reliability. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 443-450		21
44	Accounting for Climate Change: Introduction. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 421-424		9
43	Accounting for Climate Change: Introduction 2007 , 1-4		
42	National Greenhouse Gas Inventories: Understanding Uncertainties versus Potential for Improving Reliability 2007 , 23-30		11

41	Modeling retained water content in measured aerosol mass. <i>Atmospheric Environment</i> , 2006 , 40, 5202-5213	5.2	8
40	Environmental software systems for emission inventories. <i>Environmental Modelling and Software</i> , 2005 , 20, 1469-1477	5.2	20
39	Uncertainties, Validation and Verification 2004 , 145-278		
38	Improvement of emission factors 2004 , 15-143		
37	Methods for comparing gridded inventories of atmospheric emissions--application for Milan province, Italy and the Greater Athens Area, Greece. <i>Science of the Total Environment</i> , 2003 , 303, 231-43	10.2	22
36	Uncertainties in greenhouse gas emission inventories [evaluation, comparability and implications. <i>Environmental Science and Policy</i> , 2001 , 4, 107-116	6.2	134
35	Assessing the uncertainty associated with national greenhouse gas emission inventories:. <i>Atmospheric Environment</i> , 2001 , 35, 5425-5440	5.3	92
34	Inventorying emissions from nature in Europe. <i>Journal of Geophysical Research</i> , 1999 , 104, 8113-8152		375
33	On the boundary between man-made and natural emissions: Problems in defining European ecosystems. <i>Journal of Geophysical Research</i> , 1999 , 104, 8153-8159		14
32	Concentration of ionic compounds in the wintertime deposition: results and trends from the Austrian Alps over 11 years (1983-1993). <i>Atmospheric Environment</i> , 1998 , 32, 4031-4040	5.3	17
31	Measurement of diffusive flux of ammonia from water. <i>Analytical Chemistry</i> , 1998 , 70, 3656-66	7.8	22
30	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997 , 49, 56-71	3.3	18
29	SNOSP: Ion deposition and concentration in high alpine snow packs. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1997 , 49, 56-71	3.3	15
28	High Alpine Air, Aerosol and Cloud Chemistry 1997 , 235-262		
27	Temporal Disaggregation of Emission Data 1997 , 217-242		2
26	The Kleiner Feldberg Cloud Experiment 1990. An overview. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 3-35	3.2	67
25	Henry's law and the behavior of weak acids and bases in fog and cloud. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 173-188	3.2	45
24	Computer modelling of clouds at Kleiner Feldberg. <i>Journal of Atmospheric Chemistry</i> , 1994 , 19, 189-229	3.2	31

23	Estimating the spatial distribution of ozone concentrations in complex terrain. <i>Atmospheric Environment</i> , 1994 , 28, 2557-2566	5-3	63
22	The Kleiner Feldberg Cloud Experiment 1990. An Overview 1994 , 3-35		4
21	Computer Modelling of Clouds at Kleiner Feldberg 1994 , 189-229		
20	Henry's Law and the Behavior of Weak Acids and Bases in Fog and Cloud 1994 , 173-188		
19	Spatially disaggregated emission inventory for anthropogenic NMVOC in Austria. <i>Atmospheric Environment Part A General Topics</i> , 1993 , 27, 2575-2590		20
18	Comment [on 'Should bulk cloudwater or fogwater samples obey Henry's law?'] by S. N. Pandis and J. H. Seinfeld]. <i>Journal of Geophysical Research</i> , 1992 , 97, 6075		22
17	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 533-544	3-3	32
16	Phase-partitioning and chemical reactions of low molecular weight organic compounds in fog. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1992 , 44, 533-544	3-3	26
15	A calculation procedure for the determination of the collection efficiency in annular denuders. <i>Atmospheric Environment</i> , 1989 , 23, 1997-2002		28
14	An intercomparison of measurement systems for vapor and particulate phase concentrations of formic and acetic acids. <i>Journal of Geophysical Research</i> , 1989 , 94, 6457		88
13	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1988 , 40B, 348-357	3-3	64
12	Determination of inorganic and organic volatile acids, NH ₃ , particulate SO ₂ , NO ₂ and Cl ₂ in ambient air with an annular diffusion denuder system. <i>Fresenius Zeitschrift für Analytische Chemie</i> , 1988 , 331, 1-7		34
11	Atmospheric concentrations of formic and acetic acid and related compounds in eastern and northern Austria. <i>Atmospheric Environment</i> , 1988 , 22, 2841-2850		94
10	A procedure for calculating the sampling efficiency in annular denuders. <i>Journal of Aerosol Science</i> , 1988 , 19, 1055-1058	4-3	7
9	Nitrogen as a threat to the European greenhouse balance 434-462		43
8	Summary for policy makers xxxiv-xxxiv		15
7	Geographical variation in terrestrial nitrogen budgets across Europe 317-344		15
6	Future scenarios of nitrogen in Europe 551-569		8

5	Integrating nitrogen fluxes at the European scale345-376		54
4	Nitrogen in current European policies62-81		22
3	Interannual variation of reactive nitrogen emissions and their impacts on PM2.5 air pollution in China during 2005-2015. <i>Environmental Research Letters</i> ,	6.2	3
2	Nitrous Oxide and Climate Change		31
1	N ₂ O release from agro-biofuel production negates global warming reduction by replacing fossil fuels		264