Stefan Reis

List of Publications by Year
in descending order

107 papers	7,032 citations	87888 38 h-index	64796 79 g-index
136 all docs	136 docs citations	136 times ranked	9259 citing authors

#	Article	IF	Citations
1	The global nitrogen cycle in the twenty-first century. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130164.	4.0	1,114
2	Impacts of European livestock production: nitrogen, sulphur, phosphorus and greenhouse gas emissions, land-use, water eutrophication and biodiversity. Environmental Research Letters, 2015, 10, 115004.	5.2	332
3	Quantifying human exposure to air pollutionâ€"Moving from static monitoring to spatio-temporally resolved personal exposure assessment. Science of the Total Environment, 2013, 443, 184-193.	8.0	329
4	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
5	Twenty-five years of continuous sulphur dioxide emission reduction in Europe. Atmospheric Chemistry and Physics, 2007, 7, 3663-3681.	4.9	326
6	Personal exposure monitoring of PM 2.5 in indoor and outdoor microenvironments. Science of the Total Environment, 2015, 508, 383-394.	8.0	258
7	Challenges in quantifying biosphereâ€"atmosphere exchange of nitrogen species. Environmental Pollution, 2007, 150, 125-139.	7.5	203
8	Evolution of NO_x emissions in Europe with focus on road transport control measures. Atmospheric Chemistry and Physics, 2009, 9, 1503-1520.	4.9	200
9	Reactive nitrogen in atmospheric emission inventories. Atmospheric Chemistry and Physics, 2009, 9, 7657-7677.	4.9	196
10	The impact of farm size on agricultural sustainability. Journal of Cleaner Production, 2019, 220, 357-367.	9.3	191
11	PM2.5 pollution is substantially affected by ammonia emissions in China. Environmental Pollution, 2016, 218, 86-94.	7.5	183
12	Uncertainties in the relationship between atmospheric nitrogen deposition and forest carbon sequestration. Global Change Biology, 2008, 14, 2057-2063.	9.5	166
13	Ammonia Emissions May Be Substantially Underestimated in China. Environmental Science & Technology, 2017, 51, 12089-12096.	10.0	160
14	Modelling surface ozone during the 2003 heat-wave in the UK. Atmospheric Chemistry and Physics, 2010, 10, 7963-7978.	4.9	159
15	Urbanization can benefit agricultural production with large-scale farming in China. Nature Food, 2021, 2, 183-191.	14.0	152
16	From Acid Rain to Climate Change. Science, 2012, 338, 1153-1154.	12.6	135
17	Decoupling livestock and crop production at the household level in China. Nature Sustainability, 2021, 4, 48-55.	23.7	126
18	Rebuilding the linkage between livestock and cropland to mitigate agricultural pollution in China. Resources, Conservation and Recycling, 2019, 144, 65-73.	10.8	124

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19	The role of long-range transport and domestic emissions in determining atmospheric secondary inorganic particle concentrations across the UK. Atmospheric Chemistry and Physics, 2014, 14, 8435-8447.	4.9	94
20	Consolidation of agricultural land can contribute to agricultural sustainability in China. Nature Food, 2021, 2, 1014-1022.	14.0	92
21	Integrating health and environmental impact analysis. Public Health, 2015, 129, 1383-1389.	2.9	90
22	Values in socio-environmental modelling: Persuasion for action or excuse for inaction. Environmental Modelling and Software, 2014, 53, 207-212.	4.5	78
23	Governing processes for reactive nitrogen compounds in the European atmosphere. Biogeosciences, 2012, 9, 4921-4954.	3.3	77
24	Integrating modelling and smart sensors for environmental and human health. Environmental Modelling and Software, 2015, 74, 238-246.	4.5	77
25	Research challenges for cultural ecosystem services and public health in (peri-)urban environments. Science of the Total Environment, 2019, 651, 2118-2129.	8.0	74
26	The sensitivities of emissions reductions for the mitigation of UK PM_{2.5}. Atmospheric Chemistry and Physics, 2016, 16, 265-276.	4.9	70
27	Improved Estimates of Ammonia Emissions from Global Croplands. Environmental Science & Technology, 2021, 55, 1329-1338.	10.0	65
28	Synthesis and review: Tackling the nitrogen management challenge: from global to local scales. Environmental Research Letters, 2016, 11, 120205.	5.2	64
29	Simulating secondary organic aerosol from missing diesel-related intermediate-volatility organic compound emissions during the Clean Air for LondonÂ(ClearfLo) campaign. Atmospheric Chemistry and Physics, 2016, 16, 6453-6473.	4.9	60
30	Air quality and climate change: Designing new win-win policies for Europe. Environmental Science and Policy, 2016, 65, 48-57.	4.9	60
31	Nitrogen as a threat to the European greenhouse balance. , 2011, , 434-462.		58
32	Assessment of the atmospheric nitrogen and sulphur inputs into the North Sea using a Lagrangian model. Physics and Chemistry of the Earth, 2002, 27, 1507-1515.	2.9	56
33	The European nitrogen problem in a global perspective. , 2011, , 9-31.		49
34	Optimizing nitrogen fertilizer use for more grain and less pollution. Journal of Cleaner Production, 2022, 360, 132180.	9.3	49
35	Detection and attribution of nitrogen runoff trend in China's croplands. Environmental Pollution, 2018, 234, 270-278.	7.5	47
36	Road traffic emissions â€“ predictions of future contributions to regional ozone levels in Europe. Atmospheric Environment, 2000, 34, 4701-4710.	4.1	46

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37	A Satellite-Based Spatio-Temporal Machine Learning Model to Reconstruct Daily PM2.5 Concentrations across Great Britain. Remote Sensing, 2020, 12, 3803.	4.0	43
38	Modelling public health improvements as a result of air pollution control policies in the UK over four decadesâ€"1970 to 2010. Environmental Research Letters, 2019, 14, 074001.	5.2	42
39	Potential and limitation of air pollution mitigation by vegetation and uncertainties of deposition-based evaluations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190320.	3.4	41
40	Innovative approaches in integrated assessment modelling of European air pollution control strategies â€“ Implications of dealing with multi-pollutant multi-effect problems. Environmental Modelling and Software, 2005, 20, 1524-1531.	4.5	40
41	The UK particulate matter air pollution episode of Marchâ€"April 2014: more than Saharan dust. Environmental Research Letters, 2016, 11, 044004.	5.2	40
42	Integrated livestock sector nitrogen pollution abatement measures could generate net benefits for human and ecosystem health in China. Nature Food, 2022, 3, 161-168.	14.0	39
43	The influence of residential and workday population mobility on exposure to air pollution in the UK. Environment International, 2018, 121, 803-813.	10.0	38
44	Identifying drivers for the intra-urban spatial variability of airborne particulate matter components and their interrelationships. Atmospheric Environment, 2015, 112, 306-316.	4.1	37
45	Model simulations of cooking organic aerosol (COA) over the UK using estimates of emissions based on measurements at two sites in London. Atmospheric Chemistry and Physics, 2016, 16, 13773-13789.	4.9	36
46	Life Course Air Pollution Exposure and Cognitive Decline: Modelled Historical Air Pollution Data and the Lothian Birth Cohort 1936. Journal of Alzheimer's Disease, 2021, 79, 1063-1074.	2.6	36
47	Nitrogen processes in the atmosphere. , 2011, , 177-208.		35
48	Cleaning up nitrogen pollution may reduce future carbon sinks. Global Environmental Change, 2018, 48, 56-66.	7.8	33
49	Urban natural capital accounts: developing a novel approach to quantify air pollution removal by vegetation. Journal of Environmental Economics and Policy, 2019, 8, 413-428.	2.5	30
50	Air pollution and brain health. Current Opinion in Psychiatry, 2019, 32, 97-104.	6.3	28
51	Quantifying missing annual emission sources of heavy metals in the United Kingdom with an atmospheric transport model. Science of the Total Environment, 2014, 479-480, 171-180.	8.0	27
52	Advanced methods for uncertainty assessment and global sensitivity analysis of an Eulerian atmospheric chemistry transport model. Atmospheric Chemistry and Physics, 2019, 19, 2881-2898.	4.9	27
53	Assessment of cyclistsâ€™ exposure to ultrafine particles along alternative commuting routes in Edinburgh. Atmospheric Pollution Research, 2019, 10, 1148-1158.	3.8	27
54	Toward a Generic Analytical Framework for Sustainable Nitrogen Management: Application for China. Environmental Science & Technology, 2019, 53, 1109-1118.	10.0	27

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55	Lessons from complexity science for urban health and well-being. Cities and Health, 2017, 1, 210-223.	2.6	23
56	Practical Field Calibration of Portable Monitors for Mobile Measurements of Multiple Air Pollutants. Atmosphere, 2017, 8, 231.	2.3	22
57	An empirical model to estimate ammonia emission from cropland fertilization in China. Environmental Pollution, 2021, 288, 117982.	7.5	22
58	Effect of monitoring network design on land use regression models for estimating residential NO2 concentration. Atmospheric Environment, 2017, 149, 24-33.	4.1	21
59	Land-Use Regression Modelling of Intra-Urban Air Pollution Variation in China: Current Status and Future Needs. Atmosphere, 2018, 9, 134.	2.3	20
60	Socioeconomic barriers of nitrogen management for agricultural and environmental sustainability. Agriculture, Ecosystems and Environment, 2022, 333, 107950.	5.3	20
61	Sectoral approaches to improve regional carbon budgets. Climatic Change, 2008, 88, 209-249.	3.6	19
62	Scoping the proximal and distal dimensions of climate change on health and wellbeing. Environmental Health, 2017, 16, 116.	4.0	19
63	Global sensitivity and uncertainty analysis of an atmospheric chemistry transport model: the FRAME model (version 9.15.0) as a case study. Geoscientific Model Development, 2018, 11, 1653-1664.	3.6	17
64	Decoupling between ammonia emission and crop production in China due to policy interventions. Global Change Biology, 2021, 27, 5877-5888.	9.5	17
65	Reforming smallholder farms to mitigate agricultural pollution. Environmental Science and Pollution Research, 2022, 29, 13869-13880.	5.3	17
66	Trends in secondary inorganic aerosol pollution in China and its responses to emission controls of precursors in wintertime. Atmospheric Chemistry and Physics, 2022, 22, 6291-6308.	4.9	17
67	Ammonia Emissions from Croplands Decrease with Farm Size in China. Environmental Science & Technology, 2022, 56, 9915-9923.	10.0	17
68	Reactive nitrogen in agroecosystems: Integration with greenhouse gas interactions. Agriculture, Ecosystems and Environment, 2009, 133, 135-138.	5.3	16
69	Key unknowns in estimating atmospheric emissions from UK land management. Atmospheric Environment, 2011, 45, 1067-1074.	4.1	16
70	Why scale is vital to plan optimal Nature-Based Solutions for resilient cities. Environmental Research Letters, 2021, 16, 044008.	5.2	16
71	The potential for tree planting strategies to reduce local and regional ecosystem impacts of agricultural ammonia emissions. Journal of Environmental Management, 2016, 165, 106-116.	7.8	15
72	Preface ''Nitrogen & Global Change''. Biogeosciences, 2012, 9, 1691-1693.	3.3	14

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73	Modelling agro-forestry scenarios for ammonia abatement in the landscape. Environmental Research Letters, 2014, 9, 125001.	5.2	14
74	Ambient concentrations and deposition rates of selected reactive nitrogen species and their contribution to PM2.5 aerosols at three locations with contrasting land use in southwest China. Environmental Pollution, 2018, 233, 1164-1176.	7.5	14
75	Tropospheric Ozone Abatement. , 2000, , .		13
76	Nitrogen flows and fate in urban landscapes. , 2011, , 249-270.		13
77	A high-resolution map of reactive nitrogen inputs to China. Scientific Data, 2020, 7, 379.	5.3	12
78	Integrating dispersion modelling and lichen sampling to assess harmful heavy metal pollution around the Karabash copper smelter, Russian Federation. Atmospheric Pollution Research, 2015, 6, 939-945.	3.8	11
79	Modelling carbonaceous aerosol from residential solid fuel burning with different assumptions for emissions. Atmospheric Chemistry and Physics, 2018, 18, 4497-4518.	4.9	11
80	A hybrid model approach for estimating health burden from NO₂ in megacities in China: a case study in Guangzhou. Environmental Research Letters, 2019, 14, 124019.	5.2	10
81	Nitrogen emission and deposition budget in an agricultural catchment in subtropical central China. Environmental Pollution, 2021, 289, 117870.	7.5	10
82	The Warming Climate Aggravates Atmospheric Nitrogen Pollution in Australia. Research, 2021, 2021, 9804583.	5.7	9
83	Improving predictive asthma algorithms with modelled environment data for Scotland: an observational cohort study protocol. BMJ Open, 2018, 8, e023289.	1.9	8
84	High NH₃ deposition in the environs of a commercial fattening pig farm in central south China. Environmental Research Letters, 2021, 16, 125007.	5.2	8
85	A new database for time-series monitoring data: the NitroEurope approach. IForest, 2011, 4, 226-232.	1.4	6
86	Ecosystem service indicators: data sources and conceptual frameworks for sustainable management. Sustainability Accounting, Management and Policy Journal, 2014, 5, 346-375.	4.1	6
87	The Role of Digital Technologies in Responding to the Grand Challenges of the Natural Environment: The Windermere Accord. Patterns, 2021, 2, 100156.	5.9	6
88	Societal choice and communicating the European nitrogen challenge. , 2011, , 585-601.		5
89	Pollution controls in Lake Tai with the reduction of the watershed nitrogen footprint. Journal of Cleaner Production, 2022, 332, 130132.	9.3	5
90	The Quadrennial Ozone Symposium 2016. Advances in Atmospheric Sciences, 2017, 34, 283-288.	4.3	2

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91	Fusing and disaggregating models, data and analysis tools for a dynamic scienceâ€“society interface. Geological Society Special Publication, 2017, 408, 235-244.	1.3	2
92	Modelling the National and Regional Transport and Deposition of Ammonia. , 2009, , 409-421.		2
93	Regional Modelling of Tropospheric Ozone. , 2000, , 83-97.		2
94	Just Enough Nitrogen: Summary and Synthesis of Outcomes. , 2020, , 1-25.		2
95	S4â€01â€03: LIFE COURSE AIR POLLUTION EXPOSURE AND COGNITIVE DECLINE IN SCOTLAND: MODELLED HISTORICAL AIR POLLUTION DATA AND THE LOTHIAN BIRTH COHORT 1936. Alzheimer's and Dementia, 2018, 14, P1381.	0.8	1
96	Modelling the Concentration and Deposition of Heavy Metals in the UK. Springer Proceedings in Complexity, 2014, , 223-227.	0.3	1
97	Calculation of Source-Receptor Matrices for Use in an Integrated Assessment Model and Assessment of Impacts on Natural Ecosystems. Springer Proceedings in Complexity, 2016, , 107-112.	0.3	1
98	Modelling public health benefits of various emission control options to reduce NO2 concentrations in Guangzhou. Environmental Research Communications, 2020, 2, 065006.	2.3	1
99	Dry Climate Aggravates Riverine Nitrogen Pollution in Australia by Water Volume Reduction. Environmental Science & Technology, 2021, 55, 16455-16464.	10.0	1
100	Modelling the Atmospheric Concentration and Deposition of Pb and Cd in the UK. Springer Proceedings in Complexity, 2018, , 381-385.	0.3	0
101	Optimising Regional Ozone Reduction Strategies. , 2000, , 99-120.		0
102	Scenarios of Future Development. , 2000, , 61-82.		0
103	Emission Abatement Measures. , 2000, , 35-60.		0
104	Emissions of Ozone Precursors. , 2000, , 25-33.		0
105	Ecological Models, Optimization. , 2013, , .		0
106	Assessing the Effect of Uncertainty in Input Emissions on Atmospheric Chemistry Transport Model Outputs. Springer Proceedings in Complexity, 2018, , 111-116.	0.3	0
107	Synthesis and Summary for Policy Makers. , 2009, , 445-454.		0