

# Nadine Unger

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/1311729/nadine-unger-publications-by-year.pdf>

**Version:** 2024-04-27

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.

81  
papers

8,315  
citations

37  
h-index

91  
g-index

109  
ext. papers

9,307  
ext. citations

8.5  
avg, IF

5.63  
L-index

#	Paper	IF	Citations
81	Coupling interactive fire with atmospheric composition and climate in the UK Earth System Model. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 6515-6539	6.3	1
80	Reducing Planetary Health Risks Through Short-Lived Climate Forcer Mitigation. <i>GeoHealth</i> , <b>2021</b> , 5, e2021GH000422	5	0
79	Modeling the joint impacts of ozone and aerosols on crop yields in China: An air pollution policy scenario analysis. <i>Atmospheric Environment</i> , <b>2021</b> , 247, 118216	5.3	5
78	Pathway dependence of ecosystem responses in China to 1.5 °C global warming. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 2353-2366	6.8	4
77	Global Climate and Human Health Effects of the Gasoline and Diesel Vehicle Fleets. <i>GeoHealth</i> , <b>2020</b> , 4, e2019GH000240	5	16
76	Mitigation of ozone damage to the world's land ecosystems by source sector. <i>Nature Climate Change</i> , <b>2020</b> , 10, 134-137	21.4	17
75	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2615-2651	6.8	31
74	Global radiative effects of solid fuel cookstove aerosol emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5219-5233	6.8	10
73	Climate effects of stringent air pollution controls mitigate future maize losses in China. <i>Environmental Research Letters</i> , <b>2018</b> , 13, 124011	6.2	7
72	Advances in representing interactive methane in ModelE2-YIBs (version 1.1). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 4417-4434	6.3	3
71	Fire air pollution reduces global terrestrial productivity. <i>Nature Communications</i> , <b>2018</b> , 9, 5413	17.4	57
70	Global climate forcing driven by altered BVOC fluxes from 1990 to 2010 land cover change in maritime Southeast Asia. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 16931-16952	6.8	9
69	Aerosol climate change effects on land ecosystem services. <i>Faraday Discussions</i> , <b>2017</b> , 200, 121-142	3.6	13
68	Drought impacts on photosynthesis, isoprene emission and atmospheric formaldehyde in a mid-latitude forest. <i>Atmospheric Environment</i> , <b>2017</b> , 167, 190-201	5.3	11
67	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 200, 195-228	3.6	1
66	An intercomparative study of the effects of aircraft emissions on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 8325-8344	4.4	12
65	Aerosol optical depth thresholds as a tool to assess diffuse radiation fertilization of the land carbon uptake in China. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1329-1342	6.8	45

64	Future inhibition of ecosystem productivity by increasing wildfire pollution over boreal North America. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 13699-13719	6.8	9
63	Ozone and haze pollution weakens net primary productivity in China. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 6073-6089	6.8	105
62	Potential sensitivity of photosynthesis and isoprene emission to direct radiative effects of atmospheric aerosol pollution. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 4213-4234	6.8	17
61	Impact of Aviation on Climate: FAA's Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, 561-583	6.1	62
60	Limited effect of ozone reductions on the 20-year photosynthesis trend at Harvard forest. <i>Global Change Biology</i> , <b>2016</b> , 22, 3750-3759	11.4	15
59	Future climate change under RCP emission scenarios with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2015</b> , 7, 244-267	7.1	88
58	Contrasting regional versus global radiative forcing by megacity pollution emissions. <i>Atmospheric Environment</i> , <b>2015</b> , 119, 322-329	5.3	5
57	Relationships between photosynthesis and formaldehyde as a probe of isoprene emission. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 8559-8576	6.8	16
56	Distinguishing the drivers of trends in land carbon fluxes and plant volatile emissions over the past 3 decades. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 11931-11948	6.8	30
55	Limited effect of anthropogenic nitrogen oxides on secondary organic aerosol formation. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 13487-13506	6.8	15
54	The Yale Interactive terrestrial Biosphere model version 1.0: description, evaluation and implementation into NASA GISS ModelE2. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 2399-2417	6.3	40
53	Probing the past 30-year phenology trend of US deciduous forests. <i>Biogeosciences</i> , <b>2015</b> , 12, 4693-4709	4.6	34
52	Observed aerosol-induced radiative effect on plant productivity in the eastern United States. <i>Atmospheric Environment</i> , <b>2015</b> , 122, 463-476	5.3	33
51	Human land-use-driven reduction of forest volatiles cools global climate. <i>Nature Climate Change</i> , <b>2014</b> , 4, 907-910	21.4	100
50	On the role of plant volatiles in anthropogenic global climate change. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 8563-8569	4.9	37
49	Ozone vegetation damage effects on gross primary productivity in the United States. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 9137-9153	6.8	61
48	Strong chemistry-climate feedbacks in the Pliocene. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 527-533	4.9	33
47	Global health impacts of future aviation emissions under alternative control scenarios. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 14659-67	10.3	13

46	CMIP5 historical simulations (1850-2012) with GISS ModelE2. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 441-478	7.1	111
45	Configuration and assessment of the GISS ModelE2 contributions to the CMIP5 archive. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2014</b> , 6, 141-184	7.1	482
44	Mid-21st century chemical forcing of climate by the civil aviation sector. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 641-645	4.9	19
43	Isoprene emission variability through the twentieth century. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 13,606-13,613	4.4	24
42	Photosynthesis-dependent isoprene emission from leaf to planet in a global carbon-chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 10243-10269	6.8	64
41	Comparison of model estimates of the effects of aviation emissions on atmospheric ozone and methane. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6004-6009	4.9	19
40	New Directions: Enduring ozone. <i>Atmospheric Environment</i> , <b>2012</b> , 55, 456-458	5.3	10
39	Global Climate Forcing by Criteria Air Pollutants. <i>Annual Review of Environment and Resources</i> , <b>2012</b> , 37, 1-24	17.2	27
38	Global air quality and climate. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 6663-83	58.5	334
37	Global climate impact of civil aviation for standard and desulfurized jet fuel. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	31
36	Attribution of climate forcing to economic sectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 3382-7	11.5	186
35	Short-lived non-CO(2) pollutants and climate policy: fair trade?. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 5332-3	10.3	4
34	Atmospheric science. Clean the air, heat the planet?. <i>Science</i> , <b>2009</b> , 326, 672-3	33.3	87
33	Improved attribution of climate forcing to emissions. <i>Science</i> , <b>2009</b> , 326, 716-8	33.3	599
32	Climate forcing by the on-road transportation and power generation sectors. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3077-3085	5.3	37
31	Impacts of aerosol-cloud interactions on past and future changes in tropospheric composition. <i>Atmospheric Chemistry and Physics</i> , <b>2009</b> , 9, 4115-4129	6.8	24
30	Air pollution radiative forcing from specific emissions sectors at 2030. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		41
29	Aerosol climate effects and air quality impacts from 1980 to 2030. <i>Environmental Research Letters</i> , <b>2008</b> , 3, 024004	6.2	54

28	Climate forcing and air quality change due to regional emissions reductions by economic sector. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 7101-7113	6.8	45
27	Global impacts of aerosols from particular source regions and sectors. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		191
26	Linking future aerosol radiative forcing to shifts in source activities. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	33
25	Climate response to projected changes in short-lived species under an A1B scenario from 2000-2050 in the GISS climate model. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		37
24	Climate simulations for 1880-2003 with GISS modelE. <i>Climate Dynamics</i> , <b>2007</b> , 29, 661-696	4.2	209
23	Nitrate aerosols today and in 2030: a global simulation including aerosols and tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 5043-5059	6.8	202
22	Dangerous human-made interference with climate: a GISS modelE study. <i>Atmospheric Chemistry and Physics</i> , <b>2007</b> , 7, 2287-2312	6.8	173
21	Present-Day Atmospheric Simulations Using GISS ModelE: Comparison to In Situ, Satellite, and Reanalysis Data. <i>Journal of Climate</i> , <b>2006</b> , 19, 153-192	4.4	744
20	Cross influences of ozone and sulfate precursor emissions changes on air quality and climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 4377-80	11.5	76
19	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. <i>Global Biogeochemical Cycles</i> , <b>2006</b> , 20, n/a-n/a	5.9	731
18	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		625
17	Influences of man-made emissions and climate changes on tropospheric ozone, methane, and sulfate at 2030 from a broad range of possible futures. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		68
16	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		220
15	The global atmospheric environment for the next generation. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3586-94	10.3	298
14	Simulations of preindustrial, present-day, and 2100 conditions in the NASA GISS composition and climate model G-PUCCINI. <i>Atmospheric Chemistry and Physics</i> , <b>2006</b> , 6, 4427-4459	6.8	127
13	An emissions-based view of climate forcing by methane and tropospheric ozone. <i>Geophysical Research Letters</i> , <b>2005</b> , 32, n/a-n/a	4.9	105
12	Impacts of chemistry-aerosol coupling on tropospheric ozone and sulfate simulations in a general circulation model. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110, n/a-n/a		46
11	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		947

10	Preindustrial-to-present-day radiative forcing by tropospheric ozone from improved simulations with the GISS chemistry-climate GCM. <i>Atmospheric Chemistry and Physics</i> , <b>2003</b> , 3, 1675-1702	6.8	91
9	Methyl iodide: Atmospheric budget and use as a tracer of marine convection in global models. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ACH 8-1-ACH 8-12		136
8	Reduced networks governing the fractional ionisation in interstellar molecular clouds. <i>Astronomy and Astrophysics</i> , <b>2002</b> , 383, 738-746	5.1	9
7	A stochastic approach to grain surface chemical kinetics. <i>Astronomy and Astrophysics</i> , <b>2001</b> , 375, 1111-1119	5.1	79
6	Distinguishing the drivers of trends in land carbon fluxes and plant volatile emissions over the past three decades		1
5	Dangerous human-made interference with climate: a GISS modelE study		5
4	Nitrate aerosols today and in 2030: importance relative to other aerosol species and tropospheric ozone		1
3	Climate forcing and air quality change due to regional emissions reductions by economic sector		3
2	Impacts of aerosol indirect effect on past and future changes in tropospheric composition		1
1	Probing the past 30 year phenology trend of US deciduous forests		3