

# Nadine Unger

## List of Publications by Citations

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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	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		947
80	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
79	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	73 <sup>1</sup>
78	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		625
77	Improved attribution of climate forcing to emissions. <i>Science</i> , <b>2009</b> , 326, 716-8	33.3	599
76	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
75	Global air quality and climate. <i>Chemical Society Reviews</i> , <b>2012</b> , 41, 6663-83	58.5	334
74	The global atmospheric environment for the next generation. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 3586-94	10.3	298
73	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		220
72	Climate simulations for 1880-2003 with GISS modelE. <i>Climate Dynamics</i> , <b>2007</b> , 29, 661-696	4.2	209
71	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
70	Global impacts of aerosols from particular source regions and sectors. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		191
69	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
68	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
67	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
66	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
65	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

64	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
63	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
62	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
61	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
60	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
59	Atmospheric science. Clean the air, heat the planet?. <i>Science</i> , <b>2009</b> , 326, 672-3	33.3	87
58	A stochastic approach to grain surface chemical kinetics. <i>Astronomy and Astrophysics</i> , <b>2001</b> , 375, 1111-1114	1.9	79
57	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
56	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
55	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
54	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
53	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
52	Fire air pollution reduces global terrestrial productivity. <i>Nature Communications</i> , <b>2018</b> , 9, 5413	17.4	57
51	Aerosol climate effects and air quality impacts from 1980 to 2030. <i>Environmental Research Letters</i> , <b>2008</b> , 3, 024004	6.2	54
50	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
49	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
48	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
47	Air pollution radiative forcing from specific emissions sectors at 2030. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		41

46	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
45	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
44	Climate forcing by the on-road transportation and power generation sectors. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3077-3085	5.3	37
43	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
42	Probing the past 30-year phenology trend of US deciduous forests. <i>Biogeosciences</i> , <b>2015</b> , 12, 4693-4709	4.6	34
41	Strong chemistry-climate feedbacks in the Pliocene. <i>Geophysical Research Letters</i> , <b>2014</b> , 41, 527-533	4.9	33
40	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
39	Linking future aerosol radiative forcing to shifts in source activities. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	33
38	Southeast Atmosphere Studies: learning from model-observation syntheses. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 2615-2651	6.8	31
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	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
35	Global Climate Forcing by Criteria Air Pollutants. <i>Annual Review of Environment and Resources</i> , <b>2012</b> , 37, 1-24	17.2	27
34	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
33	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
32	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
31	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
30	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
29	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

28	Global Climate and Human Health Effects of the Gasoline and Diesel Vehicle Fleets. <i>GeoHealth</i> , <b>2020</b> , 4, e2019GH000240	5	16
27	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
26	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
25	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
24	Aerosol climate change effects on land ecosystem services. <i>Faraday Discussions</i> , <b>2017</b> , 200, 121-142	3.6	13
23	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
22	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
21	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
20	Global radiative effects of solid fuel cookstove aerosol emissions. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 5219-5233	6.8	10
19	New Directions: Enduring ozone. <i>Atmospheric Environment</i> , <b>2012</b> , 55, 456-458	5.3	10
18	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
17	Reduced networks governing the fractional ionisation in interstellar molecular clouds. <i>Astronomy and Astrophysics</i> , <b>2002</b> , 383, 738-746	5.1	9
16	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
15	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
14	Contrasting regional versus global radiative forcing by megacity pollution emissions. <i>Atmospheric Environment</i> , <b>2015</b> , 119, 322-329	5.3	5
13	Dangerous human-made interference with climate: a GISS modelE study		5
12	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
11	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

10	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
9	Climate forcing and air quality change due to regional emissions reductions by economic sector		3
8	Probing the past 30 year phenology trend of US deciduous forests		3
7	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
6	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 200, 195-228	3.6	1
5	Distinguishing the drivers of trends in land carbon fluxes and plant volatile emissions over the past three decades		1
4	Nitrate aerosols today and in 2030: importance relative to other aerosol species and tropospheric ozone		1
3	Impacts of aerosol indirect effect on past and future changes in tropospheric composition		1
2	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
1	Reducing Planetary Health Risks Through Short-Lived Climate Forcer Mitigation. <i>GeoHealth</i> , <b>2021</b> , 5, e2021GH000422	5	0