

# Sophie Szopa

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6530760/publications.pdf>

Version: 2024-02-01

72  
papers

13,130  
citations

53751

45  
h-index

82499

72  
g-index

97  
all docs

97  
docs citations

97  
times ranked

14617  
citing authors

#	ARTICLE	IF	CITATIONS
1	Climate change penalty and benefit on surface ozone: a global perspective based on CMIP6 earth system models. <i>Environmental Research Letters</i> , 2022, 17, 024014.	2.2	27
2	Isoprene contribution to ozone production under climate change conditions in the French Mediterranean area. <i>Regional Environmental Change</i> , 2020, 20, 1.	1.4	6
3	Sources and Sinks of Isoprene in the Global Open Ocean: Simulated Patterns and Emissions to the Atmosphere. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015946.	1.0	19
4	Implementation of the CMIP6 Forcing Data in the IPSL-CM6A-CLM Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001940.	1.3	95
5	IPSL-CM5A2 - an Earth system model designed for multi-millennial climate simulations. <i>Geoscientific Model Development</i> , 2020, 13, 3011-3053.	1.3	55
6	Reviews and syntheses: influences of landscape structure and land uses on local to regional climate and air quality. <i>Biogeosciences</i> , 2019, 16, 2369-2408.	1.3	22
7	Role of the stratospheric chemistry-climate interactions in the hot climate conditions of the Eocene. <i>Climate of the Past</i> , 2019, 15, 1187-1203.	1.3	6
8	Increasing Isoprene Epoxydiol-to-Inorganic Sulfate Aerosol Ratio Results in Extensive Conversion of Inorganic Sulfate to Organosulfur Forms: Implications for Aerosol Physicochemical Properties. <i>Environmental Science &amp; Technology</i> , 2019, 53, 8682-8694.	4.6	111
9	The oceanic cycle of carbon monoxide and its emissions to the atmosphere. <i>Biogeosciences</i> , 2019, 16, 881-902.	1.3	42
10	Inter-model comparison of global hydroxyl radical (OH) distributions and their impact on atmospheric methane over the 2000-2016 period. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13701-13723.	1.9	52
11	Peroxy acetyl nitrate (PAN) measurements at northern midlatitude mountain sites in April: a constraint on continental source-receptor relationships. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15345-15361.	1.9	3
12	A 3% global RCP8.5 emission trajectory cancels benefits of European emission reductions on air quality. <i>Nature Communications</i> , 2017, 8, 89.	5.8	14
13	Variability of fire carbon emissions in equatorial Asia and its nonlinear sensitivity to El Niño. <i>Geophysical Research Letters</i> , 2016, 43, 10,472.	1.5	60
14	Impact of emissions and 2°C climate change upon future ozone and nitrogen dioxide over Europe. <i>Atmospheric Environment</i> , 2016, 142, 271-285.	1.9	31
15	The effect of future ambient air pollution on human premature mortality to 2100 using output from the ACCMIP model ensemble. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9847-9862.	1.9	101
16	Seasonal variations of acetone in the upper troposphere-lower stratosphere of the northern midlatitudes as observed by ACE-FTS. <i>Journal of Molecular Spectroscopy</i> , 2016, 323, 67-77.	0.4	9
17	Impact of future land-cover changes on HNO <sub>3</sub> and O <sub>3</sub> surface dry deposition. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 13555-13568.	1.9	12
18	Moving towards ambitious climate policies: Monetised health benefits from improved air quality could offset mitigation costs in Europe. <i>Environmental Science and Policy</i> , 2015, 50, 252-269.	2.4	54

#	ARTICLE	IF	CITATIONS
19	Impact of the Asian monsoon anticyclone on the variability of mid-to-upper tropospheric methane above the Mediterranean Basin. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 11427-11446.	1.9	26
20	The CNRM-CM5.1 global climate model: description and basic evaluation. <i>Climate Dynamics</i> , 2013, 40, 2091-2121.	1.7	1,008
21	Climate change projections using the IPSL-CM5 Earth System Model: from CMIP3 to CMIP5. <i>Climate Dynamics</i> , 2013, 40, 2123-2165.	1.7	1,425
22	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	5.4	1,649
23	Global premature mortality due to anthropogenic outdoor air pollution and the contribution of past climate change. <i>Environmental Research Letters</i> , 2013, 8, 034005.	2.2	381
24	Assessment of ozone impacts on farming systems: A bio-economic modeling approach applied to the widely diverse French case. <i>Ecological Economics</i> , 2013, 85, 50-58.	2.9	4
25	Aerosol and ozone changes as forcing for climate evolution between 1850 and 2100. <i>Climate Dynamics</i> , 2013, 40, 2223-2250.	1.7	157
26	The Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP): overview and description of models, simulations and climate diagnostics. <i>Geoscientific Model Development</i> , 2013, 6, 179-206.	1.3	388
27	Preindustrial to present-day changes in tropospheric hydroxyl radical and methane lifetime from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5277-5298.	1.9	288
28	European atmosphere in 2050, a regional air quality and climate perspective under CMIP5 scenarios. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7451-7471.	1.9	87
29	A 4-D climatology (1979â€“2009) of the monthly tropospheric aerosol optical depth distribution over the Mediterranean region from a comparative evaluation and blending of remote sensing and model products. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 1287-1314.	1.2	131
30	Pre-industrial to end 21st century projections of tropospheric ozone from the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2063-2090.	1.9	570
31	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3063-3085.	1.9	361
32	Impact of transport model errors on the global and regional methane emissions estimated by inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9917-9937.	1.9	68
33	Analysis of present day and future OH and methane lifetime in the ACCMIP simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2563-2587.	1.9	257
34	Radiative forcing in the ACCMIP historical and future climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2939-2974.	1.9	395
35	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4057-4072.	1.9	61
36	Climate impact of stratospheric ozone recovery. <i>Geophysical Research Letters</i> , 2013, 40, 2796-2800.	1.5	27

#	ARTICLE	IF	CITATIONS
37	Long-term ozone changes and associated climate impacts in CMIP5 simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5029-5060.	1.2	243
38	Have primary emission reduction measures reduced ozone across Europe? An analysis of European rural background ozone trends 1996–2005. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 437-454.	1.9	128
39	Future impact of traffic emissions on atmospheric ozone and OH based on two scenarios. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 12211-12225.	1.9	13
40	Modelling future changes in surface ozone: a parameterized approach. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 2037-2054.	1.9	155
41	Assimilation of IASI satellite CO fields into a global chemistry transport model for validation against aircraft measurements. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4493-4512.	1.9	23
42	The formaldehyde budget as seen by a global-scale multi-constraint and multi-species inversion system. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6699-6721.	1.9	93
43	The influence of ozone precursor emissions from four world regions on tropospheric composition and radiative climate forcing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	97
44	The European land and inland water CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> O balance between 2001 and 2005. <i>Biogeosciences</i> , 2012, 9, 3357-3380.	1.3	53
45	Global air quality and climate. <i>Chemical Society Reviews</i> , 2012, 41, 6663.	18.7	428
46	Ten years of CO emissions as seen from Measurements of Pollution in the Troposphere (MOPITT). <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	87
47	A three-dimensional synthesis inversion of the molecular hydrogen cycle: Sources and sinks budget and implications for the soil uptake. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
48	Acetone variability in the upper troposphere: analysis of CARIBIC observations and LMDz-INCA chemistry-climate model simulations. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 8053-8074.	1.9	20
49	Future impact of non-land based traffic emissions on atmospheric ozone and OH – an optimistic scenario and a possible mitigation strategy. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11293-11317.	1.9	30
50	Emission sources contributing to tropospheric ozone over Equatorial Africa during the summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 13395-13419.	1.9	13
51	Source attribution of the changes in atmospheric methane for 2006–2008. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 3689-3700.	1.9	252
52	An ensemble assessment of regional ozone model uncertainty with an explicit error representation. <i>Atmospheric Environment</i> , 2011, 45, 784-793.	1.9	26
53	Radiative forcing due to changes in ozone and methane caused by the transport sector. <i>Atmospheric Environment</i> , 2011, 45, 387-394.	1.9	87
54	Present and future impact of aircraft, road traffic and shipping emissions on global tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11681-11705.	1.9	39

#	ARTICLE	IF	CITATIONS
55	Global Chemistry Simulations in the AMMA Multimodel Intercomparison Project. Bulletin of the American Meteorological Society, 2010, 91, 611-624.	1.7	21
56	A multi-model analysis of vertical ozone profiles. Atmospheric Chemistry and Physics, 2010, 10, 5759-5783.	1.9	70
57	Impact of large scale circulation on European summer surface ozone and consequences for modelling forecast. Atmospheric Environment, 2009, 43, 1189-1195.	1.9	60
58	Intercontinental Impacts of Ozone Pollution on Human Mortality. Environmental Science & Technology, 2009, 43, 6482-6487.	4.6	126
59	Multimodel estimates of intercontinental source-receptor relationships for ozone pollution. Journal of Geophysical Research, 2009, 114, .	3.3	430
60	LMDzT-INCA dust forecast model developments and associated validation efforts. IOP Conference Series: Earth and Environmental Science, 2009, 7, 012014.	0.2	9
61	A multi-model study of the hemispheric transport and deposition of oxidised nitrogen. Geophysical Research Letters, 2008, 35, .	1.5	76
62	Chapter 2.13 Modelling regional air quality over decades: Past and future trends in photochemical smog. Developments in Environmental Science, 2007, 6, 210-219.	0.5	3
63	Human mortality effects of future concentrations of tropospheric ozone. Comptes Rendus - Geoscience, 2007, 339, 775-783.	0.4	73
64	Relative impacts of worldwide tropospheric ozone changes and regional emission modifications on European surface-ozone levels. Comptes Rendus - Geoscience, 2007, 339, 709-720.	0.4	13
65	Relative contributions of biomass burning emissions and atmospheric transport to carbon monoxide interannual variability. Geophysical Research Letters, 2007, 34, .	1.5	34
66	Nitrogen and sulfur deposition on regional and global scales: A multimodel evaluation. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	1.9	846
67	Multimodel ensemble simulations of present-day and near-future tropospheric ozone. Journal of Geophysical Research, 2006, 111, .	3.3	743
68	Future global tropospheric ozone changes and impact on European air quality. Geophysical Research Letters, 2006, 33, .	1.5	64
69	Are decadal anthropogenic emission reductions in Europe consistent with surface ozone observations?. Geophysical Research Letters, 2006, 33, .	1.5	61
70	Multimodel simulations of carbon monoxide: Comparison with observations and projected near-future changes. Journal of Geophysical Research, 2006, 111, .	3.3	254
71	The Global Atmospheric Environment for the Next Generation. Environmental Science & Technology, 2006, 40, 3586-3594.	4.6	338
72	Future tropospheric ozone simulated with a climate-chemistry-biosphere model. Geophysical Research Letters, 2005, 32, .	1.5	90