

# Toms Sherwen

## 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.

52  
papers

1,131  
citations

19  
h-index

33  
g-index

79  
ext. papers

1,477  
ext. citations

6.5  
avg, IF

4.3  
L-index

#	Paper	IF	Citations
52	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 12239-12271	6.8	160
51	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3981-4003	6.8	96
50	Modeling the observed tropospheric BrO background: Importance of multiphase chemistry and implications for ozone, OH, and mercury. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,819	4.4	86
49	Iodine impact on tropospheric oxidants: a global model study in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 1161-1186	6.8	79
48	DMS oxidation and sulfur aerosol formation in the marine troposphere: a focus on reactive halogen and multiphase chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 13617-13637	6.8	62
47	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. <i>Geophysical Research Letters</i> , <b>2017</b> , 44, 7069-7078	4.9	43
46	Global inorganic nitrate production mechanisms: comparison of a global model with nitrate isotope observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 3859-3877	6.8	40
45	Biofuels and their potential to aid the UK towards achieving emissions reduction policy targets. <i>Renewable and Sustainable Energy Reviews</i> , <b>2012</b> , 16, 5414-5422	16.2	39
44	Global impact of nitrate photolysis in sea-salt aerosol on NO <sub>2</sub> , OH, and O <sub>3</sub> in the marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 11185-11203	6.8	38
43	Effects of halogens on European air-quality. <i>Faraday Discussions</i> , <b>2017</b> , 200, 75-100	3.6	36
42	Global simulation of tropospheric chemistry at 12.5 km resolution: performance and evaluation of the GEOS-Chem chemical module (v10-1) within the NASA GEOS Earth system model (GEOS-5 ESM). <i>Geoscientific Model Development</i> , <b>2018</b> , 11, 4603-4620	6.3	36
41	Halogen chemistry reduces tropospheric O <sub>3</sub> radiative forcing. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 1557-1569	6.8	35
40	Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 12136-12141	11.5	34
39	Evidence for renoxification in the tropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 4081-4092	6.8	26
38	Observed NO/NO <sub>2</sub> Ratios in the Upper Troposphere Imply Errors in NO-NO <sub>2</sub> -O <sub>3</sub> Cycling Kinetics or an Unaccounted NO <sub>x</sub> Reservoir. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 4466-4474	4.9	24
37	The atmospheric impacts of monoterpene ozonolysis on global stabilised Criegee intermediate budgets and SO <sub>2</sub> oxidation: experiment, theory and modelling. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 6095-6120	6.8	23
36	Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 6497-6507	6.8	22

35	Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , <b>2019</b> , 19, 3161-3189	6.8	22
34	BrO and inferred Br<sub>2</sub> profiles over the western Pacific: relevance of inorganic bromine sources and a Br<sub>2</sub> minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 15245-15270	6.8	22
33	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7753-7781	6.8	18
32	Impacts of bromine and iodine chemistry on tropospheric OH and HO<sub>2</sub>: comparing observations with box and global model perspectives. <i>Atmospheric Chemistry and Physics</i> , <b>2018</b> , 18, 3541-3561	6.8	17
31	A machine-learning-based global sea-surface iodide distribution. <i>Earth System Science Data</i> , <b>2019</b> , 11, 1239-1262	10.5	17
30	Global sea-surface iodide observations, 1967-2018. <i>Scientific Data</i> , <b>2019</b> , 6, 286	8.2	16
29	Influences of oceanic ozone deposition on tropospheric photochemistry. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 4227-4239	6.8	15
28	Influence of bromine and iodine chemistry on annual, seasonal, diurnal, and background ozone: CMAQ simulations over the Northern Hemisphere. <i>Atmospheric Environment</i> , <b>2019</b> , 213, 395-404	5.3	14
27	Global modeling of tropospheric iodine aerosol. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 10012-10019	4.9	13
26	Atmospheric ethanol in London and the potential impacts of future fuel formulations. <i>Faraday Discussions</i> , <b>2016</b> , 189, 105-20	3.6	10
25	Evaluating the impact of blowing-snow sea salt aerosol on springtime BrO and O<sub>3</sub> in the Arctic. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 7335-7358	6.8	9
24	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. <i>Atmospheric Science Letters</i> , <b>2018</b> , 19, e844	2.4	9
23	Estimation of reactive inorganic iodine fluxes in the Indian and Southern Ocean marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2020</b> , 20, 12093-12114	6.8	8
22	Marine iodine emissions in a changing world.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2021</b> , 477, 20200824	2.4	8
21	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 13973-13996	6.8	7
20	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO emission control. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	6
19	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2021JD034688	4.4	5
18	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , <b>2020</b> , 47, e2019GL085838	4.9	3

17	Importance of reactive halogens in the tropical marine atmosphere: A regional modelling study using WRF-Chem <b>2017</b> ,		3
16	The atmospheric impacts of monoterpene ozonolysis on global stabilised Criegee intermediate budgets and SO <sub>2</sub> oxidation: experiment, theory and modelling <b>2017</b> ,		3
15	Halogen chemistry reduces tropospheric O <sub>3</sub> radiative forcing <b>2016</b> ,		3
14	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem <b>2016</b> ,		3
13	Global inorganic nitrate production mechanisms: Comparison of a global model with nitrate isotope observations <b>2019</b> ,		2
12	Constraining remote oxidation capacity with ATom observations		2
11	Iodine <sup>B</sup> impact on tropospheric oxidants: a global model study in GEOS-Chem		2
10	A machine learning based global sea-surface iodide distribution		2
9	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants		2
8	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL093808	4.9	2
7	Estimation of Reactive Inorganic Iodine Fluxes in the Indian and Southern Ocean Marine Boundary Layer <b>2020</b> ,		1
6	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , <b>2017</b> , 200, 195-228	3.6	1
5	Iodine chemistry in the chemistry-climate model SOCOL-AERv2-I. <i>Geoscientific Model Development</i> , <b>2021</b> , 14, 6623-6645	6.3	1
4	Global simulation of tropospheric chemistry at 12.5 km resolution: performance and evaluation of the GEOS-Chem chemical module (v10-1) within the NASA GEOS Earth System Model (GEOS-5 ESM) <b>2018</b> ,		1
3	The role of chlorine in tropospheric chemistry <b>2018</b> ,		1
2	Effect of sea-salt aerosol on tropospheric bromine chemistry <b>2018</b> ,		1
1	Atmospheric-methane source and sink sensitivity analysis using Gaussian process emulation. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 1717-1736	6.8	0