

Toms Sherwen

List of Publications by Year in Descending Order

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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	Iodine chemistry in the chemistry climate model SOCOL-AERv2-I. <i>Geoscientific Model Development</i> , 2021 , 14, 6623-6645	6.3	1
51	Marine iodine emissions in a changing world.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20200824	2.4	8
50	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD034688	4.4	5
49	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO emission control. <i>Science Advances</i> , 2021 , 7,	14.3	6
48	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL093808	4.9	2
47	Atmospheric-methane source and sink sensitivity analysis using Gaussian process emulation. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1717-1736	6.8	0
46	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 13973-13996	6.8	7
45	Influences of oceanic ozone deposition on tropospheric photochemistry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 4227-4239	6.8	15
44	Evaluating the impact of blowing-snow sea salt aerosol on springtime BrO and O ₃ in the Arctic. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7335-7358	6.8	9
43	Estimation of Reactive Inorganic Iodine Fluxes in the Indian and Southern Ocean Marine Boundary Layer 2020 ,		1
42	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085838	4.9	3
41	Global inorganic nitrate production mechanisms: comparison of a global model with nitrate isotope observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3859-3877	6.8	40
40	Estimation of reactive inorganic iodine fluxes in the Indian and Southern Ocean marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12093-12114	6.8	8
39	Constraining remote oxidation capacity with ATom observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7753-7781	6.8	18
38	Effect of sea salt aerosol on tropospheric bromine chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6497-6507	6.8	22
37	Importance of reactive halogens in the tropical marine atmosphere: a regional modelling study using WRF-Chem. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3161-3189	6.8	22
36	The role of chlorine in global tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 3981-4003	6.8	96

35	Global inorganic nitrate production mechanisms: Comparison of a global model with nitrate isotope observations 2019 ,		2
34	Influence of bromine and iodine chemistry on annual, seasonal, diurnal, and background ozone: CMAQ simulations over the Northern Hemisphere. <i>Atmospheric Environment</i> , 2019 , 213, 395-404	5.3	14
33	A machine-learning-based global sea-surface iodide distribution. <i>Earth System Science Data</i> , 2019 , 11, 1239-1262	10.5	17
32	Global sea-surface iodide observations, 1967-2018. <i>Scientific Data</i> , 2019 , 6, 286	8.2	16
31	Impacts of bromine and iodine chemistry on tropospheric OH and HO ₂ : comparing observations with box and global model perspectives. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3541-3561	6.8	17
30	The atmospheric impacts of monoterpene ozonolysis on global stabilised Criegee intermediate budgets and SO ₂ oxidation: experiment, theory and modelling. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6095-6120	6.8	23
29	Observed NO/NO ₂ Ratios in the Upper Troposphere Imply Errors in NO-NO ₂ -O ₃ Cycling Kinetics or an Unaccounted NO _x Reservoir. <i>Geophysical Research Letters</i> , 2018 , 45, 4466-4474	4.9	24
28	DMS oxidation and sulfur aerosol formation in the marine troposphere: a focus on reactive halogen and multiphase chemistry. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13617-13637	6.8	62
27	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) 2018 ,		1
26	The role of chlorine in tropospheric chemistry 2018 ,		1
25	Effect of sea-salt aerosol on tropospheric bromine chemistry 2018 ,		1
24	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> , 2018 , 115, 12136-12141	11.5	34
23	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> , 2018 , 11, 4603-4620	6.3	36
22	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. <i>Atmospheric Science Letters</i> , 2018 , 19, e844	2.4	9
21	Global impact of nitrate photolysis in sea-salt aerosol on NO _x , OH, and O ₃ in the marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 11185-11203	6.8	38
20	Effects of halogens on European air-quality. <i>Faraday Discussions</i> , 2017 , 200, 75-100	3.6	36
19	Importance of reactive halogens in the tropical marine atmosphere: A regional modelling study using WRF-Chem 2017 ,		3
18	The atmospheric impacts of monoterpene ozonolysis on global stabilised Criegee intermediate budgets and SO ₂ oxidation: experiment, theory and modelling 2017 ,		3

17	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. <i>Geophysical Research Letters</i> , 2017 , 44, 7069-7078	4.9	43
16	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , 2017 , 200, 195-228	3.6	1
15	BrO and inferred Br profiles over the western Pacific: relevance of inorganic bromine sources and a Br minimum in the aged tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 15245-15270	6.8	22
14	Halogen chemistry reduces tropospheric O ₃ ; radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 1557-1569	6.8	35
13	Evidence for renoxification in the tropical marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 4081-4092	6.8	26
12	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> , 2016 , 121, 11,819	4.4	86
11	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12239-12271	6.8	160
10	Iodine ⁺ impact on tropospheric oxidants: a global model study in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1161-1186	6.8	79
9	Atmospheric ethanol in London and the potential impacts of future fuel formulations. <i>Faraday Discussions</i> , 2016 , 189, 105-20	3.6	10
8	Halogen chemistry reduces tropospheric O ₃ ; radiative forcing 2016 ,		3
7	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem 2016 ,		3
6	Global modeling of tropospheric iodine aerosol. <i>Geophysical Research Letters</i> , 2016 , 43, 10012-10019	4.9	13
5	Biofuels and their potential to aid the UK towards achieving emissions reduction policy targets. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 5414-5422	16.2	39
4	Constraining remote oxidation capacity with ATom observations		2
3	Iodine ⁺ impact on tropospheric oxidants: a global model study in GEOS-Chem		2
2	A machine learning based global sea-surface iodide distribution		2
1	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants		2