TomÃ¡s Sherwen

List of Publications by Year
in descending order

40 papers	1,903 citations	236833 25 h-index	289141 40 g-index
79 all docs	79 docs citations	79 times ranked	2450 citing authors

#	Article	IF	Citations
1	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 12239-12271.	1.9	231
2	The role of chlorine in global tropospheric chemistry. Atmospheric Chemistry and Physics, 2019, 19, 3981-4003.	1.9	160
3	Iodine's impact on tropospheric oxidants: aÂglobal model study in GEOS-Chem. Atmospheric Chemistry and Physics, 2016, 16, 1161-1186.	1.9	116
4	Modeling the observed tropospheric BrO background: Importance of multiphase chemistry and implications for ozone, OH, and mercury. Journal of Geophysical Research D: Atmospheres, 2016, 121, 11,819.	1.2	106
5	DMS oxidation and sulfur aerosol formation in the marine troposphere: a focus on reactive halogen and multiphase chemistry. Atmospheric Chemistry and Physics, 2018, 18, 13617-13637.	1.9	106
6	Global inorganic nitrate production mechanisms: comparison of a global model with nitrate isotope observations. Atmospheric Chemistry and Physics, 2020, 20, 3859-3877.	1.9	106
7	Global impact of nitrate photolysis in sea-salt aerosol on NO_{<i>x</i>}, OH, and O₃ in the marine boundary layer. Atmospheric Chemistry and Physics, 2018, 18, 11185-11203.	1.9	62
8	Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets. Geophysical Research Letters, 2017, 44, 7069-7078.	1.5	60
9	Global simulation of tropospheric chemistry at 12.5â€‰km resolution: performance and evaluation of the GEOS-Chem chemical module (v10-1) within the NASA GEOS Earth system model (GEOS-5 ESM). Geoscientific Model Development, 2018, 11, 4603-4620.	1.3	60
10	Global tropospheric halogen (Cl, Br, I) chemistry and its impact on oxidants. Atmospheric Chemistry and Physics, 2021, 21, 13973-13996.	1.9	57
11	Alpine ice evidence of a three-fold increase in atmospheric iodine deposition since 1950 in Europe due to increasing oceanic emissions. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12136-12141.	3.3	53
12	Evidence for renoxification in the tropical marine boundary layer. Atmospheric Chemistry and Physics, 2017, 17, 4081-4092.	1.9	47
13	Biofuels and their potential to aid the UK towards achieving emissions reduction policy targets. Renewable and Sustainable Energy Reviews, 2012, 16, 5414-5422.	8.2	44
14	Effects of halogens on European air-quality. Faraday Discussions, 2017, 200, 75-100.	1.6	43
15	Halogen chemistry reduces tropospheric O₃ radiative forcing. Atmospheric Chemistry and Physics, 2017, 17, 1557-1569.	1.9	43
16	Marine iodine emissions in a changing world. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, 20200824.	1.0	41
17	The atmospheric impacts of monoterpene ozonolysis on global stabilised Criegee intermediate budgets and SO₂ oxidation: experiment, theory and modelling. Atmospheric Chemistry and Physics, 2018, 18, 6095-6120.	1.9	36
18	Effect of sea salt aerosol on tropospheric bromine chemistry. Atmospheric Chemistry and Physics, 2019, 19, 6497-6507.	1.9	36

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19	Importance of reactive halogens in the tropical marine atmosphere: aÂ regional modelling study using WRF-Chem. Atmospheric Chemistry and Physics, 2019, 19, 3161-3189.	1.9	36
20	Constraining remote oxidation capacity with ATom observations. Atmospheric Chemistry and Physics, 2020, 20, 7753-7781.	1.9	36
21	Observed NO/NO₂ Ratios in the Upper Troposphere Imply Errors in NOâ€NO₂â€O₃ Cycling Kinetics or an Unaccounted NO_x Reservoir. Geophysical Research Letters, 2018, 45, 4466-4474.	1.5	34
22	BrO and inferred Br_{<i>y</i>} profiles over the western Pacific: relevance of inorganic bromine sources and a Br_{<i>y</i>} minimum in the aged tropical tropopause layer. Atmospheric Chemistry and Physics, 2017, 17, 15245-15270.	1.9	33
23	A machine-learning-based global sea-surface iodide distribution. Earth System Science Data, 2019, 11, 1239-1262.	3.7	31
24	Influence of bromine and iodine chemistry on annual, seasonal, diurnal, and background ozone: CMAQ simulations over the Northern Hemisphere. Atmospheric Environment, 2019, 213, 395-404.	1.9	29
25	Influences of oceanic ozone deposition on tropospheric photochemistry. Atmospheric Chemistry and Physics, 2020, 20, 4227-4239.	1.9	28
26	Global sea-surface iodide observations, 1967â€"2018. Scientific Data, 2019, 6, 286.	2.4	25
27	Heterogeneous Nitrate Production Mechanisms in Intense Haze Events in the North China Plain. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034688.	1.2	25
28	Impacts of bromine and iodine chemistry on tropospheric OH and HO₂: comparing observations with box and global model perspectives. Atmospheric Chemistry and Physics, 2018, 18, 3541-3561.	1.9	24
29	Effects of Sea Salt Aerosol Emissions for Marine Cloud Brightening on Atmospheric Chemistry: Implications for Radiative Forcing. Geophysical Research Letters, 2020, 47, e2019GL085838.	1.5	24
30	Isotopic evidence for acidity-driven enhancement of sulfate formation after SO ₂ emission control. Science Advances, 2021, 7, .	4.7	24
31	Seasonal and geographical variability of nitryl chloride and its precursors in Northern Europe. Atmospheric Science Letters, 2018, 19, e844.	0.8	19
32	Evaluating the impact of blowing-snow sea salt aerosol on springtime BrO and O₃ in the Arctic. Atmospheric Chemistry and Physics, 2020, 20, 7335-7358.	1.9	18
33	Global modeling of tropospheric iodine aerosol. Geophysical Research Letters, 2016, 43, 10012-10019.	1.5	17
34	Atmospheric ethanol in London and the potential impacts of future fuel formulations. Faraday Discussions, 2016, 189, 105-120.	1.6	16
35	Estimation of reactive inorganic iodine fluxes in the Indian and Southern Ocean marine boundary layer. Atmospheric Chemistry and Physics, 2020, 20, 12093-12114.	1.9	14
36	Iodine chemistry in the chemistryâ€"climate model SOCOL-AERv2-I. Geoscientific Model Development, 2021, 14, 6623-6645.	1.3	12

#	Article	IF	Citations
37	Anthropogenic Impacts on Tropospheric Reactive Chlorine Since the Preindustrial. Geophysical Research Letters, 2021, 48, e2021GL093808.	1.5	8
38	Ozone production and precursor emission from wildfires in Africa. Environmental Science Atmospheres, 2021, 1, 524-542.	0.9	4
39	Atmospheric-methane source and sink sensitivity analysis using Gaussian process emulation. Atmospheric Chemistry and Physics, 2021, 21, 1717-1736.	1.9	3
40	Atmospheric chemistry and the biosphere: general discussion. Faraday Discussions, 2017, 200, 195-228.	1.6	1