

Ryan Hossaini

List of Publications by Year in descending order

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42
papers

2,261
citations

236925

25
h-index

265206

42
g-index

72
all docs

72
docs citations

72
times ranked

2756
citing authors

#	ARTICLE	IF	CITATIONS
1	Very Strong Atmospheric Methane Growth in the 4 Years 2014–2017: Implications for the Paris Agreement. <i>Global Biogeochemical Cycles</i> , 2019, 33, 318-342.	4.9	353
2	Detecting recovery of the stratospheric ozone layer. <i>Nature</i> , 2017, 549, 211-218.	27.8	182
3	The increasing threat to stratospheric ozone from dichloromethane. <i>Nature Communications</i> , 2017, 8, 15962.	12.8	147
4	Efficiency of short-lived halogens at influencing climate through depletion of stratospheric ozone. <i>Nature Geoscience</i> , 2015, 8, 186-190.	12.9	146
5	Bromoform and dibromomethane in the tropics: a 3-D model study of chemistry and transport. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 719-735.	4.9	112
6	Recent Northern Hemisphere stratospheric HCl increase due to atmospheric circulation changes. <i>Nature</i> , 2014, 515, 104-107.	27.8	110
7	On the Cause of Recent Variations in Lower Stratospheric Ozone. <i>Geophysical Research Letters</i> , 2018, 45, 5718-5726.	4.0	87
8	A global model of tropospheric chlorine chemistry: Organic versus inorganic sources and impact on methane oxidation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,271.	3.3	86
9	Evaluating global emission inventories of biogenic bromocarbons. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11819-11838.	4.9	66
10	The contribution of natural and anthropogenic very short-lived species to stratospheric bromine. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 371-380.	4.9	63
11	Delay in recovery of the Antarctic ozone hole from unexpected CFC-11 emissions. <i>Nature Communications</i> , 2019, 10, 5781.	12.8	58
12	Impact of deep convection and dehydration on bromine loading in the upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2671-2687.	4.9	52
13	Tropospheric Ozone Assessment Report. <i>Elementa</i> , 2020, 8, .	3.2	52
14	A multi-model intercomparison of halogenated very short-lived substances (TransCom-VSLS): linking oceanic emissions and tropospheric transport for a reconciled estimate of the stratospheric source gas injection of bromine. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 9163-9187.	4.9	51
15	Attribution of recent increases in atmospheric methane through 3-D inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 18149-18168.	4.9	51
16	Revisiting the hemispheric asymmetry in midlatitude ozone changes following the Mount Pinatubo eruption: A 3D model study. <i>Geophysical Research Letters</i> , 2015, 42, 3038-3047.	4.0	47
17	On the ambiguous nature of the 11% year solar cycle signal in upper stratospheric ozone. <i>Geophysical Research Letters</i> , 2016, 43, 7241-7249.	4.0	43
18	The contribution of oceanic methyl iodide to stratospheric iodine. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11869-11886.	4.9	42

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19	Growth in stratospheric chlorine from short-lived chemicals not controlled by the Montreal Protocol. <i>Geophysical Research Letters</i> , 2015, 42, 4573-4580.	4.0	42
20	Modelling future changes to the stratospheric source gas injection of biogenic bromocarbons. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	38
21	Natural halogens buffer tropospheric ozone in a changing climate. <i>Nature Climate Change</i> , 2020, 10, 147-154.	18.8	37
22	Stratospheric Injection of Brominated Very Short-Lived Substances: Aircraft Observations in the Western Pacific and Representation in Global Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5690-5719.	3.3	36
23	Recent Trends in Stratospheric Chlorine From Very Short-Lived Substances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2318-2335.	3.3	34
24	Renewed and emerging concerns over the production and emission of ozone-depleting substances. <i>Nature Reviews Earth & Environment</i> , 2020, 1, 251-263.	29.7	32
25	Modelling marine emissions and atmospheric distributions of halocarbons and dimethyl sulfide: the influence of prescribed water concentration vs. prescribed emissions. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11753-11772.	4.9	28
26	Probing the subtropical lowermost stratosphere and the tropical upper troposphere and tropopause layer for inorganic bromine. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1161-1186.	4.9	25
27	Rapid increase in dichloromethane emissions from China inferred through atmospheric observations. <i>Nature Communications</i> , 2021, 12, 7279.	12.8	24
28	Atmospheric test of the $J(\text{BrONO}_2)/J(\text{BrO} + \text{NO}_2)$ ratio: implications for total stratospheric Br and bromine-mediated ozone loss. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6263-6274.	4.9	21
29	On the Regional and Seasonal Ozone Depletion Potential of Chlorinated Very Short-Lived Substances. <i>Geophysical Research Letters</i> , 2019, 46, 5489-5498.	4.0	21
30	Strong sensitivity of the isotopic composition of methane to the plausible range of tropospheric chlorine. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 8405-8419.	4.9	21
31	A new Differential Optical Absorption Spectroscopy instrument to study atmospheric chemistry from a high-altitude unmanned aircraft. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1017-1042.	3.1	20
32	Reactive halogens increase the global methane lifetime and radiative forcing in the 21st century. <i>Nature Communications</i> , 2022, 13, 2768.	12.8	20
33	Bromine from short-lived source gases in the extratropical northern hemispheric upper troposphere and lower stratosphere (UTLS). <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 4105-4132.	4.9	19
34	Reaction between CH_3O_2 and BrO Radicals: A New Source of Upper Troposphere Lower Stratosphere Hydroxyl Radicals. <i>Journal of Physical Chemistry A</i> , 2015, 119, 4618-4632.	2.5	18
35	A Synthesis Inversion to Constrain Global Emissions of Two Very Short Lived Chlorocarbons: Dichloromethane, and Perchloroethylene. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031818.	3.3	18
36	Phosgene in the Upper Troposphere and Lower Stratosphere: A Marker for Product Gas Injection Due to Chlorine-Containing Very Short Lived Substances. <i>Geophysical Research Letters</i> , 2019, 46, 1032-1039.	4.0	10

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37	A temperature dependent extreme value analysis of UK surface ozone, 1980â€“2019. Atmospheric Environment, 2022, 273, 118975.	4.1	9
38	A single-peak-structured solar cycle signal in stratospheric ozone based on Microwave Limb Sounder observations and model simulations. Atmospheric Chemistry and Physics, 2022, 22, 903-916.	4.9	7
39	Model sensitivity studies of the decrease in atmospheric carbon tetrachloride. Atmospheric Chemistry and Physics, 2016, 16, 15741-15754.	4.9	5
40	Constraining the N<sub>2</sub>O<sub>5</sub> UV absorption cross section from spectroscopic trace gas measurements in the tropical mid-stratosphere. Atmospheric Chemistry and Physics, 2014, 14, 9555-9566.	4.9	4
41	Cluster-based analysis of multi-model climate ensembles. Geoscientific Model Development, 2018, 11, 2033-2048.	3.6	4
42	Cloud-scale modelling of the impact of deep convection on the fate of oceanic bromoform in the troposphere: a case study over the west coast of Borneo. Atmospheric Chemistry and Physics, 2021, 21, 16955-16984.	4.9	1