

Anoop Mahajan

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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.

84
papers

3,054
citations

29
h-index

54
g-index

107
ext. papers

3,485
ext. citations

6.4
avg, IF

4.43
L-index

#	Paper	IF	Citations
84	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , 2008 , 453, 1232-1235	5.4	375
83	Boundary layer halogens in coastal Antarctica. <i>Science</i> , 2007 , 317, 348-51	33.3	251
82	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
81	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3939-3949	6.8	138
80	Measurement and modelling of tropospheric reactive halogen species over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4611-4624	6.8	138
79	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O ₃ , HO _x , NO _x and the Hg lifetime. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 887-900	6.8	131
78	The chemistry of OH and HO ₂ radicals in the boundary layer over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1555-1576	6.8	124
77	Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 169-199	6.8	120
76	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RH _a MBLe) Roscoff coastal study. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 2975-2999	6.8	102
75	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 2010 , 67, 87-140	3.2	81
74	Iodine's impact on tropospheric oxidants: a global model study in GEOS-Chem. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1161-1186	6.8	79
73	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , 2010 , 115,		73
72	Enhanced production of oxidised mercury over the tropical Pacific Ocean: a key missing oxidation pathway. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1323-1335	6.8	70
71	Iodine emissions from the sea ice of the Weddell Sea. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11229-11249	6.8	69
70	Reactive iodine species in a semi-polluted environment. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	66
69	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 583-593	6.8	62
68	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11609-11617	6.8	58

67	Reactive Halogens in the Marine Boundary Layer (RHaMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1031-1055	6.8	58
66	Quantifying the effect of air quality control measures during the 2010 Commonwealth Games at Delhi, India. <i>Atmospheric Environment</i> , 2013 , 80, 455-463	5.3	54
65	Studies of the Formation and Growth of Aerosol from Molecular Iodine Precursor. <i>Zeitschrift Fur Physikalische Chemie</i> , 2010 , 224, 1095-1117	3.1	46
64	Inter-annual variations in satellite observations of nitrogen dioxide and formaldehyde over India. <i>Atmospheric Environment</i> , 2015 , 116, 194-201	5.3	42
63	Iodine chemistry in the eastern Pacific marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 887-904	4.4	42
62	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5949-5962	6.8	37
61	Isotopic ratios of nitrate in aerosol samples from Mt. Lulin, a high-altitude station in Central Taiwan. <i>Atmospheric Environment</i> , 2017 , 154, 53-69	5.3	35
60	Trends in peroxyacetyl nitrate (PAN) in the upper troposphere and lower stratosphere over southern Asia during the summer monsoon season: regional impacts. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12725-12743	6.8	35
59	Glyoxal observations in the global marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 6160-6169	4.4	32
58	Concurrent observations of atomic iodine, molecular iodine and ultrafine particles in a coastal environment. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2545-2555	6.8	31
57	Particles and iodine compounds in coastal Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 7144-7156	4.4	30
56	Photochemistry of OIO: Laboratory study and atmospheric implications. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	30
55	Observations of I ₂ at a remote marine site. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 2669-2678	6.8	29
54	Physical properties of iodate solutions and the deliquescence of crystalline I ₂ O ₅ and HIO ₃ . <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 12251-12260	6.8	29
53	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 11823-11838	6.8	28
52	High bromine oxide concentrations in the semi-polluted boundary layer. <i>Atmospheric Environment</i> , 2009 , 43, 3811-3818	5.3	26
51	Quantifying the impacts of an updated global dimethyl sulfide climatology on cloud microphysics and aerosol radiative forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2524-2536	4.4	25
50	Large inter annual variation in air quality during the annual festival Diwali in an Indian megacity. <i>Journal of Environmental Sciences</i> , 2016 , 43, 265-272	6.4	24

49	Nighttime atmospheric chemistry of iodine. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15593-15604	6.8	22
48	Transport pathways of peroxyacetyl nitrate in the upper troposphere and lower stratosphere from different monsoon systems during the summer monsoon season. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11477-11499	6.8	20
47	Simultaneous Observations of Nitrogen Dioxide, Formaldehyde and Ozone in the Indo-Gangetic Plain. <i>Aerosol and Air Quality Research</i> , 2019 , 19, 1749-1764	4.6	16
46	Global sea-surface iodide observations, 1967-2018. <i>Scientific Data</i> , 2019 , 6, 286	8.2	16
45	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 3645-3663	6.8	15
44	Evidence of atmospheric nanoparticle formation from emissions of marine microorganisms. <i>Geophysical Research Letters</i> , 2016 , 43, 6596-6603	4.9	15
43	A high-resolution time-depth view of dimethylsulphide cycling in the surface sea. <i>Scientific Reports</i> , 2016 , 6, 32325	4.9	14
42	Deviations from the $O_3 \rightleftharpoons NO \rightleftharpoons NO_2$ photo-stationary state in Delhi, India. <i>Atmospheric Environment</i> , 2014 , 96, 353-358	5.3	14
41	Small-scale variability patterns of DMS and phytoplankton in surface waters of the tropical and subtropical Atlantic, Indian, and Pacific Oceans. <i>Geophysical Research Letters</i> , 2015 , 42, 475-483	4.9	14
40	DOAS observations of formaldehyde and its impact on the HO _x balance in the tropical Atlantic marine boundary layer. <i>Journal of Atmospheric Chemistry</i> , 2010 , 66, 167-178	3.2	14
39	In situ detection of atomic and molecular iodine using Resonance and Off-Resonance Fluorescence by Lamp Excitation: ROFLEX. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 29-45	4	13
38	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff		10
37	What controls the atmospheric methane seasonal variability over India?. <i>Atmospheric Environment</i> , 2018 , 175, 83-91	5.3	10
36	Understanding Iodine Chemistry Over the Northern and Equatorial Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8104-8118	4.4	9
35	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		9
34	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
33	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
32	Observations of iodine oxide in the Indian Ocean marine boundary layer: A transect from the tropics to the high latitudes. <i>Atmospheric Environment: X</i> , 2019 , 1, 100016	2.8	7

31	Iodine emissions from the sea ice of the Weddell Sea		7
30	Measurements of nitrogen oxides from Hudson Bay: Implications for NO _x release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , 2010 , 44, 2971-2979	5.3	6
29	Corrigendum to "Overview: oxidant and particle photochemical processes above a south-east Asian tropical rainforest (the OP3 project): introduction, rationale, location characteristics and tools" published in <i>Atmos. Chem. Phys.</i> , 10, 1691-199, 2010. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 563-563	6.8	5
28	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere		5
27	Transport pathways of peroxyacetyl nitrate in the upper troposphere and lower stratosphere from different monsoon systems during the summer monsoon season		5
26	On the concentration and size distribution of sub-micron aerosol in the Galápagos Islands. <i>Atmospheric Environment</i> , 2015 , 123, 39-48	5.3	4
25	Concurrent observations of atomic iodine, molecular iodine and ultrafine particles in a coastal environment		4
24	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources		4
23	Measurement and modelling of reactive halogen species over the tropical Atlantic Ocean		4
22	Measurements of iodine monoxide at a semi polluted coastal location		4
21	Understanding atmospheric methane sub-seasonal variability over India. <i>Atmospheric Environment</i> , 2020 , 223, 117206	5.3	4
20	Surface Inorganic Iodine Speciation in the Indian and Southern Oceans From 12°N to 70°S. <i>Frontiers in Marine Science</i> , 2020 , 7,	4.5	4
19	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem 2016		3
18	Validation of satellite retrieved ozone profiles using in-situ ozonesonde observations over the Indian Antarctic station, Bharati. <i>Polar Science</i> , 2020 , 25, 100547	2.3	2
17	Iodine's impact on tropospheric oxidants: a global model study in GEOS-Chem		2
16	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study		2
15	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O ₃ , HO _x , NO _x and the Hg lifetime		2
14	What is driving the diurnal variation in tropospheric NO ₂ columns over a cluster of high emission thermal power plants in India?. <i>Atmospheric Environment: X</i> , 2020 , 5, 100058	2.8	2

13	On the variability of ozone in the equatorial eastern Pacific boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 11,086-11,103	4.4	2
12	Chemical Interactions Between Ship-Originated Air Pollutants and Ocean-Emitted Halogens. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034175	4.4	2
11	Supplementary material to "Third Revision of the Global Surface Seawater Dimethyl Sulfide Climatology (DMS-Rev3)"		2
10	Estimation of Reactive Inorganic Iodine Fluxes in the Indian and Southern Ocean Marine Boundary Layer 2020 ,		1
9	Physical properties of iodate solutions and the deliquescence of crystalline I_2 and HIO_3		1
8	Iodine oxide in the global marine boundary layer		1
7	In situ detection of atomic and molecular iodine using resonance and off-resonance fluorescence by lamp excitation: ROFLEX		1
6	DOAS measurements of formaldehyde and glyoxal above a South-East Asian tropical rainforest		1
5	Modelling the impacts of iodine chemistry on the northern Indian Ocean marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8437-8454	6.8	1
4	Differences between in-situ ozonesonde observations and satellite retrieved ozone vertical profiles across Antarctica. <i>Polar Science</i> , 2021 , 30, 100688	2.3	1
3	Atmospheric gas-phase composition over the Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6625-6676	6.8	0
2	Observations of iodine monoxide over three summers at the Indian Antarctic bases of Bharati and Maitri. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 11829-11842	6.8	
1	Quantifying stratospheric ozone loss over Antarctica in the last two decades using corrected satellite profiles. <i>Polar Science</i> , 2022 , 100860	2.3	