

# Anoop Mahajan

## 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.

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	Quantifying stratospheric ozone loss over Antarctica in the last two decades using corrected satellite profiles. <i>Polar Science</i> , <b>2022</b> , 100860	2.3	
83	Atmospheric gas-phase composition over the Indian Ocean. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 6625-6676	6.8	0
82	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
81	Modelling the impacts of iodine chemistry on the northern Indian Ocean marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 8437-8454	6.8	1
80	Differences between in-situ ozonesonde observations and satellite retrieved ozone vertical profiles across Antarctica. <i>Polar Science</i> , <b>2021</b> , 30, 100688	2.3	1
79	Chemical Interactions Between Ship-Originated Air Pollutants and Ocean-Emitted Halogens. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD034175	4.4	2
78	Observations of iodine monoxide over three summers at the Indian Antarctic bases of Bharati and Maitri. <i>Atmospheric Chemistry and Physics</i> , <b>2021</b> , 21, 11829-11842	6.8	
77	Validation of satellite retrieved ozone profiles using in-situ ozonesonde observations over the Indian Antarctic station, Bharati. <i>Polar Science</i> , <b>2020</b> , 25, 100547	2.3	2
76	Estimation of Reactive Inorganic Iodine Fluxes in the Indian and Southern Ocean Marine Boundary Layer <b>2020</b> ,		1
75	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
74	Understanding atmospheric methane sub-seasonal variability over India. <i>Atmospheric Environment</i> , <b>2020</b> , 223, 117206	5.3	4
73	What is driving the diurnal variation in tropospheric NO <sub>2</sub> columns over a cluster of high emission thermal power plants in India?. <i>Atmospheric Environment: X</i> , <b>2020</b> , 5, 100058	2.8	2
72	Surface Inorganic Iodine Speciation in the Indian and Southern Oceans From 12°N to 70°S. <i>Frontiers in Marine Science</i> , <b>2020</b> , 7,	4.5	4
71	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> , <b>2019</b> , 1, 100016	2.8	7
70	Understanding Iodine Chemistry Over the Northern and Equatorial Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2019</b> , 124, 8104-8118	4.4	9
69	Simultaneous Observations of Nitrogen Dioxide, Formaldehyde and Ozone in the Indo-Gangetic Plain. <i>Aerosol and Air Quality Research</i> , <b>2019</b> , 19, 1749-1764	4.6	16
68	Global sea-surface iodide observations, 1967-2018. <i>Scientific Data</i> , <b>2019</b> , 6, 286	8.2	16

67	What controls the atmospheric methane seasonal variability over India?. <i>Atmospheric Environment</i> , <b>2018</b> , 175, 83-91	5.3	10
66	Isotopic ratios of nitrate in aerosol samples from Mt. Lulin, a high-altitude station in Central Taiwan. <i>Atmospheric Environment</i> , <b>2017</b> , 154, 53-69	5.3	35
65	A high-resolution time-depth view of dimethylsulphide cycling in the surface sea. <i>Scientific Reports</i> , <b>2016</b> , 6, 32325	4.9	14
64	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
63	Iodine <sup>+</sup> 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
62	Nighttime atmospheric chemistry of iodine. <i>Atmospheric Chemistry and Physics</i> , <b>2016</b> , 16, 15593-15604	6.8	22
61	Global impacts of tropospheric halogens (Cl, Br, I) on oxidants and composition in GEOS-Chem <b>2016</b>		3
60	Evidence of atmospheric nanoparticle formation from emissions of marine microorganisms. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6596-6603	4.9	15
59	Large inter annual variation in air quality during the annual festival Diwali <sup>+</sup> in an Indian megacity. <i>Journal of Environmental Sciences</i> , <b>2016</b> , 43, 265-272	6.4	24
58	On the variability of ozone in the equatorial eastern Pacific boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 11,086-11,103	4.4	2
57	Particles and iodine compounds in coastal Antarctica. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2015</b> , 120, 7144-7156	4.4	30
56	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> , <b>2015</b> , 42, 475-483	4.9	14
55	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> , <b>2015</b> , 120, 2524-2536	4.4	25
54	On the concentration and size distribution of sub-micron aerosol in the Galapagos Islands. <i>Atmospheric Environment</i> , <b>2015</b> , 123, 39-48	5.3	4
53	Inter-annual variations in satellite observations of nitrogen dioxide and formaldehyde over India. <i>Atmospheric Environment</i> , <b>2015</b> , 116, 194-201	5.3	42
52	Iodine oxide in the global marine boundary layer. <i>Atmospheric Chemistry and Physics</i> , <b>2015</b> , 15, 583-593	6.8	62
51	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> , <b>2015</b> , 15, 11477-11499	6.8	20
50	Deviations from the O <sub>3</sub> + NO <sub>2</sub> photo-stationary state in Delhi, India. <i>Atmospheric Environment</i> , <b>2014</b> , 96, 353-358	5.3	14

49	Glyoxal observations in the global marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 6160-6169	4.4	32
48	Enhanced production of oxidised mercury over the tropical Pacific Ocean: a key missing oxidation pathway. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 1323-1335	6.8	70
47	Observations of I <sub>2</sub> at a remote marine site. <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 2669-2678	6.8	29
46	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> , <b>2014</b> , 14, 12725-12743	6.8	35
45	Quantifying the effect of air quality control measures during the 2010 Commonwealth Games at Delhi, India. <i>Atmospheric Environment</i> , <b>2013</b> , 80, 455-463	5.3	54
44	Iodine chemistry in the eastern Pacific marine boundary layer. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2013</b> , 118, 887-904	4.4	42
43	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 3939-3949	6.8	138
42	DOAS measurements of formaldehyde and glyoxal above a south-east Asian tropical rainforest. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 5949-5962	6.8	37
41	Iodine emissions from the sea ice of the Weddell Sea. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11229-11246	6.8	49
40	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources. <i>Atmospheric Chemistry and Physics</i> , <b>2012</b> , 12, 11609-11617	6.8	58
39	Concurrent observations of atomic iodine, molecular iodine and ultrafine particles in a coastal environment. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 2545-2555	6.8	31
38	Hydrogen oxide photochemistry in the northern Canadian spring time boundary layer. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		9
37	In situ detection of atomic and molecular iodine using Resonance and Off-Resonance Fluorescence by Lamp Excitation: ROFLEX. <i>Atmospheric Measurement Techniques</i> , <b>2011</b> , 4, 29-45	4	13
36	Studies of the Formation and Growth of Aerosol from Molecular Iodine Precursor. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2010</b> , 224, 1095-1117	3.1	46
35	Evidence of reactive iodine chemistry in the Arctic boundary layer. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		73
34	Reactive Halogens in the Marine Boundary Layer (RHAMBLe): the tropical North Atlantic experiments. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1031-1055	6.8	58
33	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 11823-11838	6.8	28
32	The chemistry of OH and HO <sub>2</sub> radicals in the boundary layer over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 1555-1576	6.8	124

31	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> , <b>2010</b> , 10, 169-199	6.8	120
30	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 2975-2999	6.8	102
29	Measurements of iodine monoxide at a semi polluted coastal location. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 3645-3663	6.8	15
28	Measurement and modelling of tropospheric reactive halogen species over the tropical Atlantic Ocean. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 4611-4624	6.8	138
27	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, 1691-1699, 2010. <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 543-543	6.8	5
26	Physical properties of iodate solutions and the deliquescence of crystalline $\text{I}_2\text{O}_5$ and $\text{HIO}_3$ . <i>Atmospheric Chemistry and Physics</i> , <b>2010</b> , 10, 12251-12260	6.8	29
25	DOAS observations of formaldehyde and its impact on the HO <sub>x</sub> balance in the tropical Atlantic marine boundary layer. <i>Journal of Atmospheric Chemistry</i> , <b>2010</b> , 66, 167-178	3.2	14
24	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , <b>2010</b> , 67, 87-140	3.2	81
23	Measurements of nitrogen oxides from Hudson Bay: Implications for NO <sub>x</sub> release from snow and ice covered surfaces. <i>Atmospheric Environment</i> , <b>2010</b> , 44, 2971-2979	5.3	6
22	High bromine oxide concentrations in the semi-polluted boundary layer. <i>Atmospheric Environment</i> , <b>2009</b> , 43, 3811-3818	5.3	26
21	Photochemistry of OIO: Laboratory study and atmospheric implications. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	30
20	Reactive iodine species in a semi-polluted environment. <i>Geophysical Research Letters</i> , <b>2009</b> , 36,	4.9	66
19	Extensive halogen-mediated ozone destruction over the tropical Atlantic Ocean. <i>Nature</i> , <b>2008</b> , 453, 1232-1235	5.4	375
18	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for $\text{O}_3$ , HO <sub>x</sub> , NO <sub>x</sub> and the Hg lifetime. <i>Atmospheric Chemistry and Physics</i> , <b>2008</b> , 8, 887-900	6.8	131
17	Boundary layer halogens in coastal Antarctica. <i>Science</i> , <b>2007</b> , 317, 348-51	33.3	251
16	Physical properties of iodate solutions and the deliquescence of crystalline $\text{I}_2\text{O}_5$ and $\text{HIO}_3$ ;		1
15	Concurrent observations of atomic iodine, molecular iodine and ultrafine particles in a coastal environment		4
14	Estimating the climate significance of halogen-driven ozone loss in the tropical marine troposphere		5

13	Iodine emissions from the sea ice of the Weddell Sea	7
12	Latitudinal distribution of reactive iodine in the Eastern Pacific and its link to open ocean sources	4
11	Transport pathways of peroxyacetyl nitrate in the upper troposphere and lower stratosphere from different monsoon systems during the summer monsoon season	5
10	Iodine oxide in the global marine boundary layer	1
9	Iodine's impact on tropospheric oxidants: a global model study in GEOS-Chem	2
8	Measurements and modelling of molecular iodine emissions, transport and photodestruction in the coastal region around Roscoff	10
7	Measurement and modelling of reactive halogen species over the tropical Atlantic Ocean	4
6	Measurements of iodine monoxide at a semi polluted coastal location	4
5	Iodine-mediated coastal particle formation: an overview of the Reactive Halogens in the Marine Boundary Layer (RHAMBLe) Roscoff coastal study	2
4	On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for $O_3$ , $HO_x$ , $NO_x$ and the Hg lifetime	2
3	In situ detection of atomic and molecular iodine using resonance and off-resonance fluorescence by lamp excitation: ROFLEX	1
2	DOAS measurements of formaldehyde and glyoxal above a South-East Asian tropical rainforest	1
1	Supplementary material to "Third Revision of the Global Surface Seawater Dimethyl Sulfide Climatology (DMS-Rev3)"	2