

# Gufran Beig

## List of Publications by Year in descending order

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165  
papers

4,929  
citations

101543  
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128289  
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#	ARTICLE	IF	CITATIONS
1	Tracer-based characterization of source variations of ambient isoprene mixing ratios in a hilly megacity, India, influenced by the local meteorology. <i>Environmental Research</i> , 2022, 205, 112465.	7.5	8
2	A comprehensive high-resolution gridded emission inventory of anthropogenic sources of air pollutants in Indian megacity Kolkata. <i>SN Applied Sciences</i> , 2022, 4, 1.	2.9	9
3	Particulate Matter Pollution in Urban Cities of India During Unusually Restricted Anthropogenic Activities. <i>Frontiers in Sustainable Cities</i> , 2022, 4, .	2.4	2
4	Analysis of Ozone Photochemistry over Southern Tropical Megacity, Bengaluru, India. <i>Photochemistry and Photobiology</i> , 2022, 98, 1312-1322.	2.5	0
5	On the varied emission fingerprints of particulate matter over typical locations of NCR (Delhi) – A perspective for mitigation plans. <i>Journal of Environmental Management</i> , 2022, 311, 114834.	7.8	3
6	Process-based diagnostics of extreme pollution trail using numerical modelling during fatal second COVID-19 wave in the Indian capital. <i>Chemosphere</i> , 2022, 298, 134271.	8.2	2
7	Development and assessment of inventory of air pollutants that deteriorate the air quality in Indian megacity Bengaluru. <i>Journal of Cleaner Production</i> , 2022, 360, 132209.	9.3	4
8	Temporal variability of PM <sub>2.5</sub> and its possible sources at the tropical megacity, Bengaluru, India. <i>Environmental Monitoring and Assessment</i> , 2022, 194, .	2.7	1
9	Assessment and prediction of surface ozone in Northwest Indo-Gangetic Plains using ensemble approach. <i>Environment, Development and Sustainability</i> , 2021, 23, 5715-5738.	5.0	1
10	Avoiding high ozone pollution in Delhi, India. <i>Faraday Discussions</i> , 2021, 226, 502-514.	3.2	42
11	On modelling growing menace of household emissions under COVID-19 in Indian metros. <i>Environmental Pollution</i> , 2021, 272, 115993.	7.5	13
12	Propagation of cloud base to higher levels during Covid-19-Lockdown. <i>Science of the Total Environment</i> , 2021, 759, 144299.	8.0	5
13	Role of meteorological regime in mitigating biomass induced extreme air pollution events. <i>Urban Climate</i> , 2021, 35, 100756.	5.7	10
14	Clearing smog's particulate problem. <i>Nature Geoscience</i> , 2021, 14, 59-60.	12.9	2
15	Anomalous behaviour of ozone under COVID-19 and explicit diagnosis of O <sub>3</sub> -NO <sub>x</sub> -VOCs mechanism. <i>Heliyon</i> , 2021, 7, e06142.	3.2	13
16	Performance of high resolution (400 Å) PM <sub>2.5</sub> forecast over Delhi. <i>Scientific Reports</i> , 2021, 11, 4104.	3.3	37
17	Measurement and Modelling of Particulate Pollution over Kashmir Himalaya, India. <i>Water, Air, and Soil Pollution</i> , 2021, 232, 1.	2.4	5
18	Establishing a link between fine particulate matter (PM <sub>2.5</sub> ) zones and COVID -19 over India based on anthropogenic emission sources and air quality data. <i>Urban Climate</i> , 2021, 38, 100883.	5.7	24

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19	Impact of transport sector emissions on biochemical characteristics of plants and mitigation strategy in Pune, India. Environmental Challenges, 2021, 4, 100081.	4.2	3
20	Delhi Model with Chemistry and aerosol framework (<sc>DM&C</sc>) for high&Cresolution fog forecasting. Quarterly Journal of the Royal Meteorological Society, 2021, 147, 3957-3978.	2.7	7
21	On the processes governing the variability of PTR-MS based VOCs and OVOCs in different seasons of a year over hillocky mega city of India. Atmospheric Research, 2021, 261, 105736.	4.1	7
22	India&TM's Maiden air quality forecasting framework for megacities of divergent environments: The SAFAR-project. Environmental Modelling and Software, 2021, 145, 105204.	4.5	18
23	Particulate pollution over an urban Himalayan site: Temporal variability, impact of meteorology and potential source regions. Science of the Total Environment, 2021, 799, 149364.	8.0	18
24	Ambient ozone over mid-Brahmaputra Valley, India: effects of local emissions and atmospheric transport on the photostationary state. Environmental Monitoring and Assessment, 2021, 193, 790.	2.7	5
25	Variability of ozone and oxides of nitrogen in the tropical city, Bengaluru, India. Environmental Monitoring and Assessment, 2021, 193, 844.	2.7	3
26	Winter VOCs and OVOCs measured with PTR-MS at an urban site of India: Role of emissions, meteorology and photochemical sources. Environmental Pollution, 2020, 258, 113651.	7.5	35
27	Objective evaluation of stubble emission of North India and quantifying its impact on air quality of Delhi. Science of the Total Environment, 2020, 709, 136126.	8.0	94
28	Seasonal progression of surface ozone and NOx concentrations over three tropical stations in North-East India. Environmental Pollution, 2020, 258, 113662.	7.5	18
29	COVID-19 and environmental -weather markers: Unfolding baseline levels and veracity of linkages in tropical India. Environmental Research, 2020, 191, 110121.	7.5	24
30	COVID-19 lockdown and air quality of SAFAR-India metro cities. Urban Climate, 2020, 34, 100729.	5.7	35
31	Particulate Matter and Black Carbon in the Brahmaputra Valley of Northeast India: Observations and Model Simulation. Pure and Applied Geophysics, 2020, 177, 5881-5893.	1.9	4
32	Significant change in air quality parameters during the year 2020 over 1st smart city of India: Bhubaneswar. SN Applied Sciences, 2020, 2, 1990.	2.9	11
33	Ozone pollution over China and India: seasonality and sources. Atmospheric Chemistry and Physics, 2020, 20, 4399-4414.	4.9	79
34	Gaseous pollutants over different sites in a metropolitan region (Pune) over India. SN Applied Sciences, 2020, 2, 1.	2.9	5
35	Mitigation of PM&lt;sub&gt;2.5&lt;/sub&gt; and ozone pollution in Delhi: a sensitivity study during the pre-monsoon period. Atmospheric Chemistry and Physics, 2020, 20, 499-514.	4.9	52
36	Air Pollution Modeling. Environmental Chemistry for A Sustainable World, 2020, , 37-55.	0.5	1

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37	On processes controlling fine particulate matters in four Indian megacities. Environmental Pollution, 2019, 254, 113026.	7.5	27
38	Observations of middle atmospheric seasonal variations and study of atmospheric oscillations at equatorial regions. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 193, 105066.	1.6	1
39	Estimates of Carbonaceous Aerosol Radiative Forcing over a Semiurban Environment in Garhwal Himalayas. Pure and Applied Geophysics, 2019, 176, 5069-5078.	1.9	7
40	The impact of crop residue burning (CRB) on the diurnal and seasonal variability of the ozone and PM levels at a semi-urban site in the north-western Indo-Gangetic plain. Journal of Earth System Science, 2019, 128, 1.	1.3	9
41	Evaluation of tropospheric ozone and ozone precursors in simulations from the HTAPII and CCMI model intercomparisons – a focus on the Indian subcontinent. Atmospheric Chemistry and Physics, 2019, 19, 6437-6458.	4.9	23
42	Anatomy of the winter 2017 air quality emergency in Delhi. Science of the Total Environment, 2019, 681, 305-311.	8.0	39
43	Investigation of emission characteristics of NMVOCs over urban site of western India. Environmental Pollution, 2019, 252, 245-255.	7.5	42
44	Critical Issues in Ionospheric Data Quality and Implications for Scientific Studies. Radio Science, 2019, 54, 440-454.	1.6	10
45	The role of local meteorology on ambient particulate and gaseous species at an urban site of western India. Urban Climate, 2019, 28, 100449.	5.7	19
46	Evaluating the variability, transport and periodicity of particulate matter over smart city Bhubaneswar, a tropical coastal station of eastern India. SN Applied Sciences, 2019, 1, 1.	2.9	9
47	$\text{PM}_{2.5}$ , $\text{PM}_{10}$ . Journal of Earth System Science, 2019, 128, 1.	1.3	1
48	Enhanced Ozone Production in Ambient Air at Patiala Semi-Urban Site During Crop Residue Burning Events. Mapan - Journal of Metrology Society of India, 2019, 34, 273-288.	1.5	3
49	Revisiting the crop yield loss in India attributable to ozone. Atmospheric Environment: X, 2019, 1, 100008.	1.4	25
50	Winter Burst of Pristine Kashmir Valley Air. Scientific Reports, 2018, 8, 3329.	3.3	17
51	The impact of power generation emissions on ambient PM <sub>2.5</sub> pollution and human health in China and India. Environment International, 2018, 121, 250-259.	10.0	111
52	Development of Ahmedabad's Air Information and Response (AIR) Plan to Protect Public Health. International Journal of Environmental Research and Public Health, 2018, 15, 1460.	2.6	11
53	Ambient particulate matter and carbon monoxide at an urban site of India: Influence of anthropogenic emissions and dust storms. Environmental Pollution, 2017, 225, 291-303.	7.5	48
54	The role of coal technology in redefining India's climate change agents and other pollutants. Environmental Research Letters, 2017, 12, 105006.	5.2	19

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55	WRF-Chem simulated surface ozone over south Asia during the pre-monsoon: effects of emission inventories and chemical mechanisms. Atmospheric Chemistry and Physics, 2017, 17, 14393-14413.	4.9	65
56	Reactive Nitrogen and Air Quality in India. , 2017, , 403-426.		3
57	Large inter annual variation in air quality during the annual festival “Diwali”™ in an Indian megacity. Journal of Environmental Sciences, 2016, 43, 265-272.	6.1	36
58	Quantifying the sectoral contribution of pollution transport from South Asia during summer and winter monsoon seasons in support of HTAP-2 experiment. Atmospheric Environment, 2016, 145, 60-71.	4.1	4
59	Role of transport in elevated CO levels over Delhi during onset phase of monsoon. Atmospheric Environment, 2016, 140, 234-241.	4.1	11
60	Premature mortality in India due to PM <sub>2.5</sub> and ozone exposure. Geophysical Research Letters, 2016, 43, 4650-4658.	4.0	209
61	Investigations of mesospheric temperature inversions over sub-tropical location using lidar and satellites measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 138-139, 54-65.	1.6	1
62	Role of long-range transport and local meteorology in seasonal variation of surface ozone and its precursors at an urban site in India. Atmospheric Research, 2016, 176-177, 96-107.	4.1	82
63	Sensitivity of online coupled model to extreme pollution event over a mega city Delhi. Atmospheric Pollution Research, 2016, 7, 25-30.	3.8	19
64	Evaluation of black carbon emission inventories using a Lagrangian dispersion model “a case study over southern India. Atmospheric Chemistry and Physics, 2015, 15, 1447-1461.	4.9	43
65	Rising critical emission of air pollutants from renewable biomass based cogeneration from the sugar industry in India. Environmental Research Letters, 2015, 10, 095002.	5.2	19
66	Inter-comparison of different NOX emission inventories and associated variation in simulated surface ozone in Indian region. Atmospheric Environment, 2015, 117, 61-73.	4.1	37
67	Atmospheric transport of ozone between Southern and Eastern Asia. Science of the Total Environment, 2015, 523, 28-39.	8.0	27
68	Long term changes in the ionosphere over Indian low latitudes: Impact of greenhouse gases. Journal of Atmospheric and Solar-Terrestrial Physics, 2015, 128, 24-32.	1.6	1
69	Air quality simulation over South Asia using Hemispheric Transport of Air Pollution version-2 (HTAP-v2) emission inventory and Model for Ozone and Related chemical Tracers (MOZART-4). Atmospheric Environment, 2015, 122, 357-372.	4.1	26
70	Critical pollutant emissions from the Indian telecom network. Atmospheric Environment, 2015, 103, 34-42.	4.1	10
71	Influence of springtime biomass burning in South Asia on regional ozone (O <sub>3</sub> ): A model based case study. Atmospheric Environment, 2015, 100, 37-47.	4.1	35
72	High Resolution Emission Inventory of NOx and CO for Mega City Delhi, India. Aerosol and Air Quality Research, 2015, 15, 1137-1144.	2.1	30

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73	Critical Emissions from the Largest On-Road Transport Network in South Asia. Aerosol and Air Quality Research, 2014, 14, 135-144.	2.1	33
74	Long-term trends observed in the middle atmosphere temperatures using ground based LIDARs and satellite borne measurements. Annales Geophysicae, 2014, 32, 301-317.	1.6	12
75	Temporal Variation of Particulate Matter (PM) and Potential Sources at an Urban Site of Udaipur in Western India. Aerosol and Air Quality Research, 2014, 14, 1613-1629.	2.1	65
76	Response of the mesosphere-thermosphere-ionosphere system to global change - CAWSES-II contribution. Progress in Earth and Planetary Science, 2014, 1, .	3.0	11
77	Aerosol Modulation of Ultraviolet Radiation Dose over Four Metro Cities in India. Advances in Meteorology, 2014, 2014, 1-5.	1.6	6
78	Impact of meteorological parameters on the development of fine and coarse particles over Delhi. Science of the Total Environment, 2014, 478, 175-183.	8.0	58
79	Estimation of the lifetime of nitrogen oxides over India using SCIAMACHY observations. International Journal of Remote Sensing, 2014, 35, 1244-1252.	2.9	9
80	Distributions of ozone and related trace gases at an urban site in western India. Journal of Atmospheric Chemistry, 2014, 71, 125-144.	3.2	39
81	Impacts of the high loadings of primary and secondary aerosols on light extinction at Delhi during wintertime. Atmospheric Environment, 2014, 92, 60-68.	4.1	31
82	The linkages of anthropogenic emissions and meteorology in the rapid increase of particulate matter at a foothill city in the Arawali range of India. Atmospheric Environment, 2014, 85, 147-151.	4.1	34
83	Reductions in India's crop yield due to ozone. Geophysical Research Letters, 2014, 41, 5685-5691.	4.0	136
84	Air quality in Delhi during the Commonwealth Games. Atmospheric Chemistry and Physics, 2014, 14, 10619-10630.	4.9	36
85	Evaluating population exposure to environmental pollutants during Deepavali fireworks displays using air quality measurements of the SAFAR network. Chemosphere, 2013, 92, 116-124.	8.2	31
86	Application of satellite observations for identifying regions of dominant sources of nitrogen oxides over the Indian Subcontinent. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1075-1089.	3.3	53
87	Quantifying the effect of air quality control measures during the 2010 Commonwealth Games at Delhi, India. Atmospheric Environment, 2013, 80, 455-463.	4.1	68
88	Assessments of population exposure to environmental pollutants using air quality measurements during Commonwealth Games-2010. Inhalation Toxicology, 2013, 25, 333-340.	1.6	12
89	Radiative Forcing of Black Carbon over Delhi. International Journal of Photoenergy, 2013, 2013, 1-7.	2.5	23
90	Spatio-Temporal Variation and Deposition of Fine and Coarse Particles during the Commonwealth Games in Delhi. Aerosol and Air Quality Research, 2013, 13, 748-755.	2.1	32

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91	Emerging pattern of anthropogenic NO <sub>x</sub> emission over Indian subcontinent during 1990s and 2000s. Atmospheric Pollution Research, 2012, 3, 262-269.	3.8	39
92	Inter-comparison of 11-year solar cycle response in mesospheric ozone and temperature obtained by HALOE satellite data and HAMMONIA model. Journal of Geophysical Research, 2012, 117, .	3.3	17
93	Effect of lightning activity on surface NO <sub>x</sub> and O <sub>3</sub> over a tropical station during premonsoon and monsoon seasons. Journal of Geophysical Research, 2012, 117, .	3.3	23
94	Surface ozone scenario at Pune and Delhi during the decade of 1990s. Journal of Earth System Science, 2012, 121, 373-383.	1.3	27
95	Decadal solar signal in ozone and temperature through the mesosphere of Northern tropics. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 78-79, 2-7.	1.6	5
96	An overview of CAWSES-India program with emphasis to equatorial atmospheric coupling processes. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 75-76, 98-114.	1.6	10
97	Evidence of seasonal enhancement of CO in the upper troposphere over India. International Journal of Remote Sensing, 2011, 32, 7441-7452.	2.9	11
98	Long-term trends in the temperature of the mesosphere/lower thermosphere region: 1. Anthropogenic influences. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	33
99	Introduction to special section on Long-term Changes and Trends in the Stratosphere, Mesosphere, Thermosphere, and Ionosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	1
100	Below-cloud rain scavenging of atmospheric aerosols for aerosol deposition models. Atmospheric Research, 2011, 99, 528-536.	4.1	55
101	Modulation of Cyclone tracks in the Bay of Bengal by QBO. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1868-1875.	1.6	7
102	Emissions inventory of anthropogenic PM <sub>2.5</sub> and PM <sub>10</sub> in Delhi during Commonwealth Games 2010. Atmospheric Environment, 2011, 45, 6180-6190.	4.1	125
103	Long-term trends in the temperature of the mesosphere/lower thermosphere region: 2. Solar response. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26
104	Vertical transport of ozone and CO during super cyclones in the Bay of Bengal as detected by Tropospheric Emission Spectrometer. Environmental Science and Pollution Research, 2011, 18, 301-315.	5.3	12
105	Anomalous low tropospheric column ozone over Eastern India during the severe drought event of monsoon 2002: a case study. Environmental Science and Pollution Research, 2011, 18, 1442-1455.	5.3	20
106	Regional CO pollution over the Indian-subcontinent and various transport pathways as observed by MOPITT. International Journal of Remote Sensing, 2011, 32, 6133-6148.	2.9	37
107	Latitudinal variation of trends in CIO in the vertical structure of the tropical-subtropical stratosphere. International Journal of Remote Sensing, 2011, 32, 5689-5698.	2.9	0
108	Black carbon aerosols and the third polar ice cap. Atmospheric Chemistry and Physics, 2010, 10, 4559-4571.	4.9	268

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109	Global distribution of tropospheric ozone and its precursors: a view from space. International Journal of Remote Sensing, 2010, 31, 485-495.	2.9	12
110	Relationship between Lightning Activity over Peninsular India and Sea Surface Temperature. Journal of Applied Meteorology and Climatology, 2010, 49, 828-835.	1.5	31
111	Solar cycle variability in middle atmospheric ozone over tropics. International Journal of Remote Sensing, 2010, 31, 565-573.	2.9	5
112	Seasonal stratospheric intrusion of ozone in the upper troposphere over India. Annales Geophysicae, 2010, 28, 2149-2159.	1.6	28
113	Rain-Induced Soil NO <sub>x</sub> Emission From India During the Onset of the Summer Monsoon: A Satellite Perspective. Journal of Geophysical Research, 2010, 115, .	3.3	35
114	Features of SAO in ozone and temperature over tropical stratosphere by wavelet analysis. International Journal of Remote Sensing, 2010, 31, 299-311.	2.9	2
115	Quasi-biennial oscillation in ozone and temperature over tropics. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 257-263.	1.6	16
116	Long-term changes and solar impacts in the atmosphere-ionosphere system. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1413-1414.	1.6	1
117	Solar response in the temperature over the equatorial middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1450-1455.	1.6	7
118	Satellite derived trends in NO <sub>2</sub> over the major global hotspot regions during the past decade and their inter-comparison. Environmental Pollution, 2009, 157, 1873-1878.	7.5	71
119	Sink mechanism for significantly low level of ozone over the Arabian Sea during monsoon. Journal of Geophysical Research, 2009, 114, .	3.3	18
120	Exposure-plant response of ambient ozone over the tropical Indian region. Atmospheric Chemistry and Physics, 2009, 9, 5253-5260.	4.9	57
121	Ozone in ambient air at a tropical megacity, Delhi: characteristics, trends and cumulative ozone exposure indices. Journal of Atmospheric Chemistry, 2008, 60, 237-252.	3.2	94
122	Features of ozone quasi-biennial oscillation in the vertical structure of tropics and subtropics. Meteorology and Atmospheric Physics, 2008, 99, 221-231.	2.0	7
123	Threshold exceedances and cumulative ozone exposure indices at tropical suburban site. Geophysical Research Letters, 2008, 35, .	4.0	33
124	Decadal growth of black carbon emissions in India. Geophysical Research Letters, 2008, 35, .	4.0	72
125	Detection of surface emission hot spots, trends, and seasonal cycle from satellite-retrieved NO <sub>2</sub> over India. Journal of Geophysical Research, 2008, 113, .	3.3	140
126	Seasonal distribution of ozone and its precursors over the tropical Indian region using regional chemistry-transport model. Journal of Geophysical Research, 2008, 113, .	3.3	45



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127	Overview of the temperature response in the mesosphere and lower thermosphere to solar activity. Reviews of Geophysics, 2008, 46, .	23.0	56
128	Impact of geo-engineering on the ion composition of the stratosphere. Geophysical Research Letters, 2008, 35, .	4.0	10
129	Global change induced trends in ion composition of the troposphere to the lower thermosphere. Annales Geophysicae, 2008, 26, 1181-1187.	1.6	6
130	Spatiotemporal variation of the ozone QBO in MLS data by wavelet analysis. Annales Geophysicae, 2008, 26, 3719-3730.	1.6	12
131	Emerging pattern of global change in the upper atmosphere and ionosphere. Annales Geophysicae, 2008, 26, 1255-1268.	1.6	103
132	Seasonal variation of the mesospheric inversion layer, thunderstorms, and mesospheric ozone over India. Journal of Geophysical Research, 2007, 112, .	3.3	11
133	Trends in tropical tropospheric column ozone from satellite data and MOZART model. Geophysical Research Letters, 2007, 34, .	4.0	31
134	Simultaneous measurements of ozone and its precursors on a diurnal scale at a semi urban site in India. Journal of Atmospheric Chemistry, 2007, 57, 239-253.	3.2	123
135	Influence of anthropogenic emissions on tropospheric ozone and its precursors over the Indian tropical region during a monsoon. Geophysical Research Letters, 2006, 33, .	4.0	41
136	Behavior of boundary layer ozone and its precursors over a great alluvial plain of the world: Indo-Gangetic Plains. Geophysical Research Letters, 2006, 33, .	4.0	45
137	Trends in the mesopause region temperature and our present understanding – an update. Physics and Chemistry of the Earth, 2006, 31, 3-9.	2.9	25
138	Decadal solar effects on temperature and ozone in the tropical stratosphere. Annales Geophysicae, 2006, 24, 2091-2103.	1.6	21
139	Seasonal variation of trend in temperature and ozone over the tropical stratosphere in the Northern Hemisphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1952-1961.	1.6	15
140	A GIS based methodology for gridding of large-scale emission inventories: Application to carbon-monoxide emissions over Indian region. Atmospheric Environment, 2006, 40, 2995-3007.	4.1	59
141	ATMOSPHERE: Global Change in the Upper Atmosphere. Science, 2006, 314, 1253-1254.	12.6	104
142	Mesospheric temperature inversions over the Indian tropical region. Annales Geophysicae, 2004, 22, 3375-3382.	1.6	21
143	Long-term trends in tropospheric ozone over the Indian tropical region. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	46
144	Solar response in the vertical structure of ozone and temperature in the tropical stratosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2003, 65, 1235-1243.	1.6	5

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145	Review of mesospheric temperature trends. Reviews of Geophysics, 2003, 41, .	23.0	222
146	Tropospheric distribution of ozone and its precursors over the tropical Indian Ocean. Journal of Geophysical Research, 2003, 108, .	3.3	15
147	Evidence of the Pinatubo volcanic eruption on the distribution of ozone over the tropical Indian region. Journal of Geophysical Research, 2002, 107, ACH 3-1-ACH 3-11.	3.3	4
148	Overview of the mesospheric temperature trend and factors of uncertainty. Physics and Chemistry of the Earth, 2002, 27, 509-519.	2.9	16
149	In search of greenhouse signals in the equatorial middle atmosphere. Geophysical Research Letters, 2001, 28, 4603-4606.	4.0	14
150	The relative importance of solar activity and anthropogenic influences on the ion composition, temperature, and associated neutrals of the middle atmosphere. Journal of Geophysical Research, 2000, 105, 19841-19856.	3.3	32
151	Perturbation in atmospheric charged species after the eruption of Mount Pinatubo. Geophysical Research Letters, 2000, 27, 2497-2500.	4.0	1
152	Anthropogenic perturbations of tropospheric ion composition. Geophysical Research Letters, 1999, 26, 1303-1306.	4.0	7
153	Atmospheric and ionospheric response to trace gas perturbations through the ice age to the next century in the middle atmosphere. Part I – chemical composition and thermal structure. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1245-1259.	1.6	12
154	Atmospheric and ionospheric response to trace gas perturbations through the ice age to the next century in the middle atmosphere. Part II – ionization. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1261-1275.	1.6	11
155	Balloon measurements of stratospheric ion conductivities over the tropics. Journal of Atmospheric and Solar-Terrestrial Physics, 1994, 56, 1107-1115.	0.9	2
156	A two-dimensional model of ion composition in the stratosphere: 1. Positive ions. Journal of Geophysical Research, 1993, 98, 12767-12773.	3.3	23
157	A two-dimensional model of ion composition in the stratosphere: 2. Negative ions. Journal of Geophysical Research, 1993, 98, 12775-12781.	3.3	20
158	Parachute measurements of positive ion density of the middle atmosphere over the dip equator by spherical probe. Journal of Atmospheric and Solar-Terrestrial Physics, 1991, 53, 875-880.	0.9	1
159	Fine scale structure and turbulence parameters in the equatorial middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 1989, 51, 19-27.	0.9	13
160	Balloonborne measurements of the stratospheric ion conductivity profile at low latitude. Journal of Geophysical Research, 1989, 94, 11070-11073.	3.3	4
161	On modelling stratospheric positive ions. Journal of Atmospheric Chemistry, 1988, 6, 175-183.	3.2	7
162	Balloonborne measurements of stratospheric ion density and conductivity at low latitude. Geophysical Research Letters, 1988, 15, 1357-1360.	4.0	2

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163	Measurement of the eddy diffusion coefficient of the middle atmosphere from a balloon at low latitude. Journal of Atmospheric and Solar-Terrestrial Physics, 1987, 49, 975-980.	0.9	6
164	Impact of SAFAR Air Quality Forecasting Framework and Advisory Services in Reducing the Economic Health Burden of India. Regional Economic Development Research, 0, , 211-225.	0.0	0
165	Measurements of surface ozone and its precursors in different microenvironments of coastal Indian metropolis of Mumbai. International Journal of Environmental Science and Technology, 0, , 1.	3.5	0