Suvarna Fadnavis

List of Publications by Year
in descending order

69	1,831	331670 21	289244 40
papers	citations	h-index	g-index

100	100	100	1940
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of mesospheric temperature trends. Reviews of Geophysics, 2003, 41, .	23.0	222
2	Premature mortality in India due to PM_{2.5} and ozone exposure. Geophysical Research Letters, 2016, 43, 4650-4658.	4.0	209
3	Detection of surface emission hot spots, trends, and seasonal cycle from satelliteâ€retrieved NO₂ over India. Journal of Geophysical Research, 2008, 113, .	3.3	140
4	Transport of aerosols into the UTLS and their impact on the Asian monsoon region as seen in a global model simulation. Atmospheric Chemistry and Physics, 2013, 13, 8771-8786.	4.9	85
5	Satellite derived trends in NO2 over the major global hotspot regions during the past decade and their inter-comparison. Environmental Pollution, 2009, 157, 1873-1878.	7.5	71
6	Balloon-borne measurements of temperature, water vapor, ozone and aerosol backscatter on the southern slopes of the Himalayas during StratoClim 2016â€“2017. Atmospheric Chemistry and Physics, 2018, 18, 15937-15957.	4.9	69
7	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
8	Inter-annual variations in satellite observations of nitrogen dioxide and formaldehyde over India. Atmospheric Environment, 2015, 116, 194-201.	4.1	52
9	Quantifying the impacts of an updated global dimethyl sulfide climatology on cloud microphysics and aerosol radiative forcing. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2524-2536.	3.3	40
10	Trends in peroxyacetyl nitrate (PAN) in the upper troposphere and lower stratosphere over southern Asia during the summer monsoon season: regional impacts. Atmospheric Chemistry and Physics, 2014, 14, 12725-12743.	4.9	39
11	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
12	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
13	Influence of springtime biomass burning in South Asia on regional ozone (O 3): A model based case study. Atmospheric Environment, 2015, 100, 37-47.	4.1	35
14	Elevated aerosol layer over South Asia worsens the Indian droughts. Scientific Reports, 2019, 9, 10268.	3.3	34
15	Seasonal stratospheric intrusion of ozone in the upper troposphere over India. Annales Geophysicae, 2010, 28, 2149-2159.	1.6	28
16	Potential impact of carbonaceous aerosol on the upper troposphere and lower stratosphere (UTLS) and precipitation during Asian summer monsoon in a global model simulation. Atmospheric Chemistry and Physics, 2017, 17, 11637-11654.	4.9	26
17	Transport of trace gases via eddy shedding from the Asian summer monsoon anticyclone and associated impacts on ozone heating rates. Atmospheric Chemistry and Physics, 2018, 18, 11493-11506.	4.9	26
18	Temporal variation of urban NO x concentration in India during the past decade as observed from space. International Journal of Remote Sensing, 2011, 32, 849-861.	2.9	25

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19	The impact of COVID-19 lockdown measures on the Indian summer monsoon. Environmental Research Letters, 2021, 16, 074054.	5.2	25
20	Transport pathways of peroxyacetyl nitrate in the upper troposphere and lower stratosphere from different monsoon systems during the summer monsoon season. Atmospheric Chemistry and Physics, 2015, 15, 11477-11499.	4.9	24
21	The impact of recent changes in Asian anthropogenic emissions of SO₂ on sulfate loading in the upper troposphere and lower stratosphere and the associated radiative changes. Atmospheric Chemistry and Physics, 2019, 19, 9989-10008.	4.9	24
22	Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning. Atmospheric Research, 2020, 245, 105064.	4.1	24
23	Simulation of severe thunder storm event: a case study over Pune, India. Natural Hazards, 2014, 72, 927-943.	3.4	23
24	Linkages of Subtropical Stratospheric Intraseasonal Intrusions with Indian Summer Monsoon Deficit Rainfall. Journal of Climate, 2017, 30, 5083-5095.	3.2	23
25	Strong day-to-day variability of the Asian Tropopause Aerosol Layer (ATAL) in August 2016 at the Himalayan foothills. Atmospheric Chemistry and Physics, 2020, 20, 14273-14302.	4.9	23
26	Signatures of a universal spectrum for atmospheric interannual variability in some disparate climatic regimes. Meteorology and Atmospheric Physics, 1998, 66, 87-112.	2.0	21
27	Superstrings, Cantorian-fractal Spacetime and Quantum-like Chaos in Atmospheric Flows. Chaos, Solitons and Fractals, 1999, 10, 1321-1334.	5.1	21
28	Mesospheric temperature inversions over the Indian tropical region. Annales Geophysicae, 2004, 22, 3375-3382.	1.6	21
29	Decadal solar effects on temperature and ozone in the tropical stratosphere. Annales Geophysicae, 2006, 24, 2091-2103.	1.6	21
30	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
31	Potential modulations of pre-monsoon aerosols during El NiÃ±o: impact on Indian summer monsoon. Climate Dynamics, 2017, 49, 2279-2290.	3.8	18
32	Influence of enhanced Asian NO_{<i>x</i>} emissions on ozone in the upper troposphere and lower stratosphere in chemistryâ€“climate model simulations. Atmospheric Chemistry and Physics, 2017, 17, 1297-1311.	4.9	18
33	Water Vapor in the Asian Summer Monsoon Anticyclone: Comparison of BalloonâEBorne Measurements and ECMWF Data. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7053-7068.	3.3	18
34	Interâ€comparison of 11â€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
35	In search of influence of stratospheric QuasiâEBiennial Oscillation on tropical cyclones tracks over the Bay of Bengal region. International Journal of Climatology, 2014, 34, 567-580.	3.5	17
36	Quasi-biennial oscillation in ozone and temperature over tropics. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 257-263.	1.6	16

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37	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
38	In search of greenhouse signals in the equatorial middle atmosphere. Geophysical Research Letters, 2001, 28, 4603-4606.	4.0	14
39	Linkage of water vapor distribution in the lower stratosphere to organized Asian summer monsoon convection. Climate Dynamics, 2021, 57, 1709-1731.	3.8	13
40	Cantorian Fractal Spacetime, Quantum-like Chaos and Scale Relativity in Atmospheric Flows. Chaos, Solitons and Fractals, 1999, 10, 1577-1582.	5.1	12
41	Spatiotemporal variation of the ozone QBO in MLS data by wavelet analysis. Annales Geophysicae, 2008, 26, 3719-3730.	1.6	12
42	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
43	Seasonal variation of the mesospheric inversion layer, thunderstorms, and mesospheric ozone over India. Journal of Geophysical Research, 2007, 112, .	3.3	11
44	Mesospheric inversion layer and sprites. Journal of Geophysical Research, 2009, 114, .	3.3	11
45	Evidence of seasonal enhancement of CO in the upper troposphere over India. International Journal of Remote Sensing, 2011, 32, 7441-7452.	2.9	11
46	Radiative Impacts of Aerosols During COVID-19 Lockdown Period Over the Indian Region. Frontiers in Environmental Science, 2021, 9, .	3.3	11
47	The role of tropical volcanic eruptions in exacerbating Indian droughts. Scientific Reports, 2021, 11, 2714.	3.3	10
48	Ozone trends in the vertical structure of Upper Troposphere and Lower stratosphere over the Indian monsoon region. International Journal of Environmental Science and Technology, 2014, 11, 529-542.	3.5	9
49	Estimation of the lifetime of nitrogen oxides over India using SCIAMACHY observations. International Journal of Remote Sensing, 2014, 35, 1244-1252.	2.9	9
50	The stratospheric ozone rich cold intrusion during <scp>Elâ€NiÃ±o</scp> over the Indian region: Implication during the Indian summer monsoon. International Journal of Climatology, 2021, 41, E233.	3.5	8
51	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
52	Solar response in the temperature over the equatorial middle atmosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1450-1455.	1.6	7
53	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
54	The outflow of Asian biomass burning carbonaceous aerosol into the upper troposphere and lower stratosphere in spring: radiative effects seen in a global model. Atmospheric Chemistry and Physics, 2021, 21, 14371-14384.	4.9	6

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55	Solar cycle variability in middle atmospheric ozone over tropics. International Journal of Remote Sensing, 2010, 31, 565-573.	2.9	5
56	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
57	Atmospheric CO₂ source and sink patterns over the Indian region. Annales Geophysicae, 2016, 34, 279-291.	1.6	4
58	Association of the pre-monsoon thermal field over north India and the western Tibetan Plateau with summer monsoon rainfall over India. Annales Geophysicae, 2015, 33, 1051-1058.	1.6	3
59	Understanding balloon-borne frost point hygrometer measurements after contamination by mixed-phase clouds. Atmospheric Measurement Techniques, 2021, 14, 239-268.	3.1	3
60	Atmospheric Aerosols and Trace Gases. , 2020, , 93-116.		3
61	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
62	Variability of Aerosols and Clouds Over North Indian and Myanmar During the COVID-19 Lockdown Period. Frontiers in Environmental Science, 2022, 10, .	3.3	2
63	A rising trend of double tropopauses over South Asia in a warming environment: Implications for moistening of the lower stratosphere. International Journal of Climatology, 2021, 41, E200.	3.5	1
64	The Arctic Temperature Response to Global and Regional Anthropogenic Sulfate Aerosols. Frontiers in Environmental Science, 2021, 9, .	3.3	1
65	Phase-Resolved Lockdown Features of Pollution Parameters Over an Urban and Adjoining Rural Region During COVID-19. Frontiers in Environmental Science, 2022, 10, .	3.3	1
66	Tropospheric warming over the northern Indian Ocean caused by South Asian anthropogenic aerosols: possible impact on the upper troposphere and lower stratosphere. Atmospheric Chemistry and Physics, 2022, 22, 7179-7191.	4.9	1
67	Latitudinal variation of trends in ClO in the vertical structure of the tropicalâ€“subtropical stratosphere. International Journal of Remote Sensing, 2011, 32, 5689-5698.	2.9	0
68	Long-term trends and decadal solar variability in ozone near the tropopause over the Indian region. International Journal of Remote Sensing, 2013, 34, 6749-6763.	2.9	0
69	Preliminary observations and simulation of nocturnal variations of airglow temperature and emission rates at Pune (18.5Â°N), India. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 59-68.	1.6	0