

Suvarna Fadnavis

List of Publications by Year in descending order

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Version: 2024-02-01

69
papers

1,831
citations

331670

21
h-index

289244

40
g-index

100
all docs

100
docs citations

100
times ranked

1940
citing authors

#	ARTICLE	IF	CITATIONS
1	Variability of Aerosols and Clouds Over North Indian and Myanmar During the COVID-19 Lockdown Period. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	2
2	Phase-Resolved Lockdown Features of Pollution Parameters Over an Urban and Adjoining Rural Region During COVID-19. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	1
3	Tropospheric warming over the northern Indian Ocean caused by South Asian anthropogenic aerosols: possible impact on the upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 7179-7191.	4.9	1
4	A rising trend of double tropopauses over South Asia in a warming environment: Implications for moistening of the lower stratosphere. <i>International Journal of Climatology</i> , 2021, 41, E200.	3.5	1
5	The stratospheric ozone rich cold intrusion during <scp>Elâ€NiÃ±o</scp> over the Indian region: Implication during the Indian summer monsoon. <i>International Journal of Climatology</i> , 2021, 41, E233.	3.5	8
6	Understanding balloon-borne frost point hygrometer measurements after contamination by mixed-phase clouds. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 239-268.	3.1	3
7	The role of tropical volcanic eruptions in exacerbating Indian droughts. <i>Scientific Reports</i> , 2021, 11, 2714.	3.3	10
8	Linkage of water vapor distribution in the lower stratosphere to organized Asian summer monsoon convection. <i>Climate Dynamics</i> , 2021, 57, 1709-1731.	3.8	13
9	The impact of COVID-19 lockdown measures on the Indian summer monsoon. <i>Environmental Research Letters</i> , 2021, 16, 074054.	5.2	25
10	The outflow of Asian biomass burning carbonaceous aerosol into the upper troposphere and lower stratosphere in spring: radiative effects seen in a global model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14371-14384.	4.9	6
11	Radiative Impacts of Aerosols During COVID-19 Lockdown Period Over the Indian Region. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	11
12	The Arctic Temperature Response to Global and Regional Anthropogenic Sulfate Aerosols. <i>Frontiers in Environmental Science</i> , 2021, 9, .	3.3	1
13	Long term variability of carbonaceous aerosols over Southeast Asia via reanalysis: Association with changes in vegetation cover and biomass burning. <i>Atmospheric Research</i> , 2020, 245, 105064.	4.1	24
14	Strong day-to-day variability of the Asian Tropopause Aerosol Layer (ATAL) in August 2016 at the Himalayan foothills. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 14273-14302.	4.9	23
15	<i>Atmospheric Aerosols and Trace Gases</i> , 2020, , 93-116.		3
16	Elevated aerosol layer over South Asia worsens the Indian droughts. <i>Scientific Reports</i> , 2019, 9, 10268.	3.3	34
17	The impact of recent changes in Asian anthropogenic emissions of SO ₂ and NO _x on sulfate loading in the upper troposphere and lower stratosphere and the associated radiative changes. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9989-10008.	4.9	24
18	Water Vapor in the Asian Summer Monsoon Anticyclone: Comparison of Balloon-Borne Measurements and ECMWF Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7053-7068.	3.3	18

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19	Balloon-borne measurements of temperature, water vapor, ozone and aerosol backscatter on the southern slopes of the Himalayas during StratoClim 2016–2017. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 15937-15957.	4.9	69
20	Transport of trace gases via eddy shedding from the Asian summer monsoon anticyclone and associated impacts on ozone heating rates. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11493-11506.	4.9	26
21	Linkages of Subtropical Stratospheric Intraseasonal Intrusions with Indian Summer Monsoon Deficit Rainfall. <i>Journal of Climate</i> , 2017, 30, 5083-5095.	3.2	23
22	Potential modulations of pre-monsoon aerosols during El Niño: impact on Indian summer monsoon. <i>Climate Dynamics</i> , 2017, 49, 2279-2290.	3.8	18
23	Potential impact of carbonaceous aerosol on the upper troposphere and lower stratosphere (UTLS) and precipitation during Asian summer monsoon in a global model simulation. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11637-11654.	4.9	26
24	Influence of enhanced Asian NO _x emissions on ozone in the upper troposphere and lower stratosphere in chemistry–climate model simulations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 1297-1311.	4.9	18
25	Atmospheric CO ₂ source and sink patterns over the Indian region. <i>Annales Geophysicae</i> , 2016, 34, 279-291.	1.6	4
26	Preliminary observations and simulation of nocturnal variations of airglow temperature and emission rates at Pune (18.5°N), India. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 59-68.	1.6	0
27	Premature mortality in India due to PM _{2.5} and ozone exposure. <i>Geophysical Research Letters</i> , 2016, 43, 4650-4658.	4.0	209
28	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.	3.3	40
29	Inter-annual variations in satellite observations of nitrogen dioxide and formaldehyde over India. <i>Atmospheric Environment</i> , 2015, 116, 194-201.	4.1	52
30	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.	4.9	24
31	Association of the pre-monsoon thermal field over north India and the western Tibetan Plateau with summer monsoon rainfall over India. <i>Annales Geophysicae</i> , 2015, 33, 1051-1058.	1.6	3
32	Inter-comparison of different NO _x emission inventories and associated variation in simulated surface ozone in Indian region. <i>Atmospheric Environment</i> , 2015, 117, 61-73.	4.1	37
33	Influence of springtime biomass burning in South Asia on regional ozone (O ₃): A model based case study. <i>Atmospheric Environment</i> , 2015, 100, 37-47.	4.1	35
34	Ozone trends in the vertical structure of Upper Troposphere and Lower stratosphere over the Indian monsoon region. <i>International Journal of Environmental Science and Technology</i> , 2014, 11, 529-542.	3.5	9
35	Estimation of the lifetime of nitrogen oxides over India using SCIAMACHY observations. <i>International Journal of Remote Sensing</i> , 2014, 35, 1244-1252.	2.9	9
36	Simulation of severe thunder storm event: a case study over Pune, India. <i>Natural Hazards</i> , 2014, 72, 927-943.	3.4	23

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37	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.	4.9	39
38	In search of influence of stratospheric Quasi-Biennial Oscillation on tropical cyclones tracks over the Bay of Bengal region. <i>International Journal of Climatology</i> , 2014, 34, 567-580.	3.5	17
39	Application of satellite observations for identifying regions of dominant sources of nitrogen oxides over the Indian Subcontinent. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1075-1089.	3.3	53
40	Long-term trends and decadal solar variability in ozone near the tropopause over the Indian region. <i>International Journal of Remote Sensing</i> , 2013, 34, 6749-6763.	2.9	0
41	Transport of aerosols into the UTLS and their impact on the Asian monsoon region as seen in a global model simulation. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8771-8786.	4.9	85
42	Inter-comparison of 11-year solar cycle response in mesospheric ozone and temperature obtained by HALOE satellite data and HAMMONIA model. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
43	Decadal solar signal in ozone and temperature through the mesosphere of Northern tropics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 78-79, 2-7.	1.6	5
44	Evidence of seasonal enhancement of CO in the upper troposphere over India. <i>International Journal of Remote Sensing</i> , 2011, 32, 7441-7452.	2.9	11
45	Modulation of Cyclone tracks in the Bay of Bengal by QBO. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 1868-1875.	1.6	7
46	Vertical transport of ozone and CO during super cyclones in the Bay of Bengal as detected by Tropospheric Emission Spectrometer. <i>Environmental Science and Pollution Research</i> , 2011, 18, 301-315.	5.3	12
47	Anomalous low tropospheric column ozone over Eastern India during the severe drought event of monsoon 2002: a case study. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1442-1455.	5.3	20
48	Temporal variation of urban NO _x concentration in India during the past decade as observed from space. <i>International Journal of Remote Sensing</i> , 2011, 32, 849-861.	2.9	25
49	Regional CO pollution over the Indian-subcontinent and various transport pathways as observed by MOPITT. <i>International Journal of Remote Sensing</i> , 2011, 32, 6133-6148.	2.9	37
50	Latitudinal variation of trends in CIO in the vertical structure of the tropical-subtropical stratosphere. <i>International Journal of Remote Sensing</i> , 2011, 32, 5689-5698.	2.9	0
51	Solar cycle variability in middle atmospheric ozone over tropics. <i>International Journal of Remote Sensing</i> , 2010, 31, 565-573.	2.9	5
52	Seasonal stratospheric intrusion of ozone in the upper troposphere over India. <i>Annales Geophysicae</i> , 2010, 28, 2149-2159.	1.6	28
53	Features of SAO in ozone and temperature over tropical stratosphere by wavelet analysis. <i>International Journal of Remote Sensing</i> , 2010, 31, 299-311.	2.9	2
54	Quasi-biennial oscillation in ozone and temperature over tropics. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 257-263.	1.6	16

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55	Solar response in the temperature over the equatorial middle atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 1450-1455.	1.6	7
56	Satellite derived trends in NO ₂ over the major global hotspot regions during the past decade and their inter-comparison. <i>Environmental Pollution</i> , 2009, 157, 1873-1878.	7.5	71
57	Mesospheric inversion layer and sprites. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	11
58	Features of ozone quasi-biennial oscillation in the vertical structure of tropics and subtropics. <i>Meteorology and Atmospheric Physics</i> , 2008, 99, 221-231.	2.0	7
59	Detection of surface emission hot spots, trends, and seasonal cycle from satellite-retrieved NO ₂ over India. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	140
60	Spatiotemporal variation of the ozone QBO in MLS data by wavelet analysis. <i>Annales Geophysicae</i> , 2008, 26, 3719-3730.	1.6	12
61	Seasonal variation of the mesospheric inversion layer, thunderstorms, and mesospheric ozone over India. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	11
62	Decadal solar effects on temperature and ozone in the tropical stratosphere. <i>Annales Geophysicae</i> , 2006, 24, 2091-2103.	1.6	21
63	Seasonal variation of trend in temperature and ozone over the tropical stratosphere in the Northern Hemisphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 1952-1961.	1.6	15
64	Mesospheric temperature inversions over the Indian tropical region. <i>Annales Geophysicae</i> , 2004, 22, 3375-3382.	1.6	21
65	Review of mesospheric temperature trends. <i>Reviews of Geophysics</i> , 2003, 41, .	23.0	222
66	In search of greenhouse signals in the equatorial middle atmosphere. <i>Geophysical Research Letters</i> , 2001, 28, 4603-4606.	4.0	14
67	Superstrings, Cantorian-fractal Spacetime and Quantum-like Chaos in Atmospheric Flows. <i>Chaos, Solitons and Fractals</i> , 1999, 10, 1321-1334.	5.1	21
68	Cantorian Fractal Spacetime, Quantum-like Chaos and Scale Relativity in Atmospheric Flows. <i>Chaos, Solitons and Fractals</i> , 1999, 10, 1577-1582.	5.1	12
69	Signatures of a universal spectrum for atmospheric interannual variability in some disparate climatic regimes. <i>Meteorology and Atmospheric Physics</i> , 1998, 66, 87-112.	2.0	21