

# Vijay Kanawade

## 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.

63

papers

1,481

citations

24

h-index

37

g-index

70

ext. papers

1,736

ext. citations

5.3

avg, IF

4.74

L-index

#	Paper	IF	Citations
63	Reduction in Anthropogenic Emissions Suppressed New Particle Formation and Growth: Insights From the COVID-19 Lockdown. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2022</b> , 127, e2021JD035392	4.4	0
62	Atmospheric new particle formation in India: Current understanding and knowledge gaps. <i>Atmospheric Environment</i> , <b>2022</b> , 270, 118894	5.3	1
61	Impact of Climate Extremes on Agriculture and Land Use Dynamic over Vidarbha Region of Maharashtra <b>2022</b> , 437-454		
60	Observations of particle number size distributions and new particle formation in six Indian locations. <i>Atmospheric Chemistry and Physics</i> , <b>2022</b> , 22, 4491-4508	6.8	1
59	Improved air quality during COVID-19 at an urban megacity over the Indo-Gangetic Basin: From stringent to relaxed lockdown phases. <i>Urban Climate</i> , <b>2021</b> , 36, 100791	6.8	18
58	New Particle Formation and Growth to Climate-Relevant Aerosols at a Background Remote Site in the Western Himalaya. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2021</b> , 126, e2020JD033267	4.4	6
57	Characterization of raindrop size distributions and its response to cloud microphysical properties. <i>Atmospheric Research</i> , <b>2021</b> , 249, 105292	5.4	6
56	Spatio-temporal variability of near-surface air pollutants at four distinct geographical locations in Andhra Pradesh State of India. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115899	9.3	3
55	How secondary inorganic aerosols from Delhi influence aerosol optical and radiative properties at a downwind sub-urban site over Indo-Gangetic Basin?. <i>Atmospheric Environment</i> , <b>2021</b> , 248, 118246	5.3	2
54	Observation of sub-3nm particles and new particle formation at an urban location in India. <i>Atmospheric Environment</i> , <b>2021</b> , 256, 118460	5.3	3
53	Effect of COVID-19 shutdown on aerosol direct radiative forcing over the Indo-Gangetic Plain outflow region of the Bay of Bengal. <i>Science of the Total Environment</i> , <b>2021</b> , 782, 146918	10.2	7
52	Characteristics of precipitation microphysics during Tropical Cyclone Nisarga (2020) as observed over the orographic region of Western Ghats in the Indian sub-continent. <i>Atmospheric Research</i> , <b>2021</b> , 264, 105861	5.4	2
51	On distinguishing the natural and human-induced sources of airborne pathogenic viable bioaerosols: characteristic assessment using advanced molecular analysis. <i>SN Applied Sciences</i> , <b>2020</b> , 2, 1	1.8	1
50	Chemical Characterization of Sub-micron Aerosols during New Particle Formation in an Urban Atmosphere. <i>Aerosol and Air Quality Research</i> , <b>2020</b> , 20, 1294-1305	4.6	9
49	Multiple Environmental Influences on the Lightning of Cold-Based Continental Cumulonimbus Clouds. Part I: Description and Validation of Model. <i>Journals of the Atmospheric Sciences</i> , <b>2020</b> , 77, 3999-4024	21.24	5
48	What caused severe air pollution episode of November 2016 in New Delhi?. <i>Atmospheric Environment</i> , <b>2020</b> , 222, 117125	5.3	53
47	Role of Cyclone Dckhi in the re-distribution of aerosols and its impact on the precipitation over the Arabian Sea. <i>Atmospheric Research</i> , <b>2020</b> , 235, 104797	5.4	2

46	Recent Increase in Winter Hazy Days over Central India and the Arabian Sea. <i>Scientific Reports</i> , <b>2019</b> , 9, 17406	4.9	30
45	Aerosol characteristics in the upper troposphere and lower stratosphere region during successive and contrasting Indian summer monsoon season. <i>Atmospheric Environment</i> , <b>2018</b> , 173, 46-52	5.3	4
44	Aerosol-induced intensification of cooling effect of clouds during Indian summer monsoon. <i>Nature Communications</i> , <b>2018</b> , 9, 3754	17.4	39
43	Laboratory observations of temperature and humidity dependencies of nucleation and growth rates of sub-3 nm particles. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2017</b> , 122, 1919-1929	4.4	20
42	Ice Multiplication by Breakup in Ice-Ice Collisions. Part II: Numerical Simulations. <i>Journals of the Atmospheric Sciences</i> , <b>2017</b> , 74, 2789-2811	2.1	25
41	New Particle Formation and Growth Mechanisms in Highly Polluted Environments. <i>Current Pollution Reports</i> , <b>2017</b> , 3, 245-253	7.6	28
40	Internally mixed black carbon in the Indo-Gangetic Plain and its effect on absorption enhancement. <i>Atmospheric Research</i> , <b>2017</b> , 197, 211-223	5.4	35
39	Satellite Remote Sensing for Monitoring Agriculture Growth and Agricultural Drought Vulnerability Using Long-Term (1982-2015) Climate Variability and Socio-economic Data set. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , <b>2017</b> , 87, 733-750	0.9	8
38	Investigation of the aerosol-cloud-rainfall association over the Indian summer monsoon region. <i>Atmospheric Chemistry and Physics</i> , <b>2017</b> , 17, 5185-5204	6.8	48
37	A long-term observational analysis of aerosol-cloud-rainfall associations over Indian Summer Monsoon region <b>2016</b> ,		2
36	Aerosol characteristics in the UTLS region: A satellite-based study over north India. <i>Atmospheric Environment</i> , <b>2016</b> , 125, 222-230	5.3	4
35	Quantitative assessment of AOD from 17 CMIP5 models based on satellite-derived AOD over India. <i>Annales Geophysicae</i> , <b>2016</b> , 34, 657-671	2	10
34	Isoprene suppression of new particle formation: Potential mechanisms and implications. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2016</b> , 121, 14,621	4.4	26
33	Explosive ice multiplication by mechanical break-up in ice-ice collisions: a dynamical system-based study. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2016</b> , 142, 867-879	6.4	15
32	Assessment of aerosol optical and micro-physical features retrieved from direct and diffuse solar irradiance measurements from Skyradiometer at a high altitude station at Merak: Assessment of aerosol optical features from Merak. <i>Environmental Science and Pollution Research</i> , <b>2015</b> , 22, 16610-9	5.1	4
31	Atmospheric ions and new particle formation events at a tropical location, Pune, India. <i>Quarterly Journal of the Royal Meteorological Society</i> , <b>2015</b> , 141, 3140-3156	6.4	17
30	Characterization of aerosol optical properties over the high-altitude station Hanle, in the trans-Himalayan region. <i>Atmospheric Research</i> , <b>2014</b> , 138, 308-323	5.4	23
29	Infrequent occurrence of new particle formation at a semi-rural location, Gadanki, in tropical Southern India. <i>Atmospheric Environment</i> , <b>2014</b> , 94, 264-273	5.3	20

28	Temporal asymmetry in aerosol optical characteristics: A case study at a high-altitude station, Hanle, in Ladakh region. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2014</b> , 121, 123-131	2	7
27	An early South Asian dust storm during March 2012 and its impacts on Indian Himalayan foothills: a case study. <i>Science of the Total Environment</i> , <b>2014</b> , 493, 526-34	10.2	61
26	Sub-3 nm particles observed at the coastal and continental sites in the United States. <i>Journal of Geophysical Research D: Atmospheres</i> , <b>2014</b> , 119, 860-879	4.4	22
25	Sub-micron particle number size distributions characteristics at an urban location, Kanpur, in the Indo-Gangetic Plain. <i>Atmospheric Research</i> , <b>2014</b> , 147-148, 121-132	5.4	35
24	Atmospheric amines and ammonia measured with a chemical ionization mass spectrometer (CIMS). <i>Atmospheric Chemistry and Physics</i> , <b>2014</b> , 14, 12181-12194	6.8	99
23	Four-year measurements of trace gases (SO <sub>2</sub> , NO <sub>x</sub> , CO, and O <sub>3</sub> ) at an urban location, Kanpur, in Northern India. <i>Journal of Atmospheric Chemistry</i> , <b>2014</b> , 71, 283-301	3.2	95
22	Simulation of trace gases and aerosols over the Indian domain: evaluation of the WRF-Chem model <b>2014</b> ,		16
21	Observations of new particle formation at two distinct Indian subcontinental urban locations. <i>Atmospheric Environment</i> , <b>2014</b> , 96, 370-379	5.3	45
20	New Particle Formation and Growth in an Isoprene-Dominated Ozark Forest: From Sub-5 nm to CCN-Active Sizes. <i>Aerosol Science and Technology</i> , <b>2014</b> , 48, 1285-1298	3.4	28
19	Atmospheric observations of new particle growth and shrinkage <b>2013</b> ,		1
18	Sub-3 nm particle observations in the atmosphere of two sites in Eastern United States <b>2013</b> ,		1
17	Understanding global secondary organic aerosol amount and size-resolved condensational behavior. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 11519-11534	6.8	60
16	New particle growth and shrinkage observed in subtropical environments. <i>Atmospheric Chemistry and Physics</i> , <b>2013</b> , 13, 547-564	6.8	38
15	Variation between near-surface and columnar aerosol characteristics during the winter and summer at Delhi in the Indo-Gangetic Basin. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 77, 57-66	2	40
14	Statistical analysis of 4-year observations of aerosol sizes in a semi-rural continental environment. <i>Atmospheric Environment</i> , <b>2012</b> , 59, 30-38	5.3	35
13	Inferring aerosol types over the Indo-Gangetic Basin from ground based sunphotometer measurements. <i>Atmospheric Research</i> , <b>2012</b> , 109-110, 64-75	5.4	79
12	Acetylene C<sub>2</sub>H<sub>2</sub> retrievals from MIPAS data and regions of enhanced upper tropospheric concentrations in August 2003. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 10243-10257	6.8	10
11	Isoprene suppression of new particle formation in a mixed deciduous forest. <i>Atmospheric Chemistry and Physics</i> , <b>2011</b> , 11, 6013-6027	6.8	64

10	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> , <b>2011</b> , 18, 1442-55	5.1	20
9	Regional CO pollution over the Indian-subcontinent and various transport pathways as observed by MOPITT. <i>International Journal of Remote Sensing</i> , <b>2011</b> , 32, 6133-6148	3.1	29
8	Meteorological study of the first observation of red sprites from Poland. <i>Acta Geophysica</i> , <b>2009</b> , 57, 760-777		2
7	Evidence for the role of ion-induced particle formation during an atmospheric nucleation event observed in Tropospheric Ozone Production about the Spring Equinox (TOPSE). <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		31
6	Measurements of atmospheric parameters during Indian Space Research Organization Geosphere Biosphere Programme Land Campaign II at a typical location in the Ganga basin: 1. Physical and optical properties. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		93
5	Measurements of atmospheric parameters during Indian Space Research Organization Geosphere Biosphere Program Land Campaign II at a typical location in the Ganga Basin: 2. Chemical properties. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		78
4	Acetylene C <sub>2</sub> H <sub>2</sub> retrievals from MIPAS data and regions of enhanced upper tropospheric concentrations in August 2003		2
3	Simulation of trace gases and aerosols over the Indian domain: evaluation of the WRF-Chem Model		6
2	Atmospheric amines and ammonia measured with a Chemical Ionization Mass Spectrometer (CIMS)		4
1	Isoprene suppression of new particle formation in mixed deciduous forest		1