

CV of Dr. Sarvan Kumar

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Assistant Professor

Department of Earth and Planetary Sciences
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Research Interests:

Atmospheric and Space Sciences

Atmospheric aerosols and clouds: Physical and chemical characteristics, Radiative forcing, Dust storms and dust aerosols, Biomass burning, Air pollution, Satellite remote sensing of aerosols, Climate change, Mathematical Modeling, processing of sunphotometer and AERONET data, working on WRF-Chem for satellite PM_{2.5} calculation.

Academic Credentials:

S.No.	Courses/Year/Div.	Board/University	Subjects
1.	Ph. D. /2015	Department of Physics, Banaras Hindu University, Varanasi	Supervisor: Prof. Abhay Kumar Singh Thesis Title: <i>Aerosol Characteristics, Dynamics and Climatic implications over Indo-Gangetic Basin.</i>
2.	M.Sc./ 2009/ I	Banaras Hindu University, Varanasi	Physics
3.	B.Sc./2007/II	University of Allahabad	Physics, Chemistry and Mathematics
4.	Intermediate/2004/I	U.P. Board	Phy., Chem., Math., English and Hindi
5.	High school/2002/I	U.P. Board	Science stream with Mathematics

Position Held:

- 10 July 2018 to 25 October 2019: **Research Associate (Post-Doc)** at Indian Institute of Tropical Meteorology (**IITM**), **Pune**, Maharashtra, India
- 20 June 2016 to 20 June 2018: **SERB National PDF** at **ARIES, Nainital**, India.
- 2012-2015: Senior **Research Fellow** at **BHU** (RGNF: UGC New Delhi, India).
- 20 May-20 June 2013: **Visiting Research Scientist** at **Chapman University, CA, USA** (COSPAR Capacity Building Fellowship).
- 2010-2012: **Junior Research Fellow** at **BHU** (RGNF: UGC New Delhi, India).
- 2009-2010: **University Research Fellow** at **BHU** (UGC New Delhi, India).

Workshop and field work:

- More than 10 National and International training workshop/School attended.
- **NASA-ISRO Balloon aerosol measurement campaign (BATALL-2015, 2016)**.

Computing skills:

Operating systems - Linux/Unix, Windows; Programming languages - FORTRAN- 95, Python, Software - MATLAB, Origin, Microsoft office; Handling of large volume of data format like NetCDF, HDF etc.

Awards:

- **First Prize** in Essay competition on Hindi diwas, **IITM, Pune**, 2018
- **Second Prize** in Essay competition on Hindi diwas, **ARIES, Nainital**, 2017
- **SERB National Post-doctoral Fellowship** award 2016, **ARIES, Nainital**
- **CSIR-NET in Physics** (CSIR, New Delhi), 2016
- **International Geosphere-Biosphere Program (IGBP)** IGBP's Landmark Synthesis Event Fellowship (AGU-2015)

- **COSPAR, France and Chapman University, Orange, CA, USA** COSPAR Capacity Building Workshop Fellowship, 2013

Professional Societies Membership:

- **Optical Society of America (OSA)**, Student member, 2014-2015
- **American Geophysical Union (AGU)**, Student member, since 2012
- **Aerosol Society, UK**, Student member since 2011
- **Committee on Space Research (COSPAR)**, Associate member since 2011
- **Indian Aerosol Science and Technology Association (IASTA)**, Life Member

Peer-Reviewed Publications:

16 Publications in internationally refereed Journals and Conference Proceedings:

Google Scholar: <https://scholar.google.co.in/citations?user=olhYkNEAAA&hl=en>

Research gate: https://www.researchgate.net/profile/Sarvan_Kumar3

1. List of Publications (Peer Reviewed):

1. U.C. Dumka, D.G. Kaskaoutis, P.C.S. Devara, R. Kumar, **S. Kumar**, S. Tiwari, E. Gerasopoulos, N. Mihalopoulos. **2019**. Year-long variability of the fossil fuel and wood burning black carbon components at a rural site in southern Delhi outskirts, *Atmospheric Research*, 216, 11-25. **Impact Factor: 4.12**
2. Ramesh P. Singh, **Sarvan Kumar**, Abhay K. Singh. **2018**. Elevated Black Carbon Concentrations and Atmospheric Pollution around Singrauli Coal-Fired Thermal Power Plants (India) Using Ground and Satellite Data. *International Journal of Environmental Research and Public Health* 15 (11), 2472. **Impact Factor: 2.47**
3. Vernier, J. P.,...**Sarvan Kumar**, et al., **2017**. The Balloon measurement campaigns of the Asian Tropopause Aerosol Layer. *Bulletin of the American Meteorological Society*. doi.org/10.1175/BAMS-D-17-0014.1. **Impact Factor: 8.17**

4. **Sarvan Kumar**, Devendraa Singh, R. P. Singh and A. K. Singh. **2016**. Impact of meteorological parameters and atmospheric pollutants on lightning, rain and normalized difference vegetation index in the Indo-Gangetic Plane. *International Journal of Remote Sensing* 37(1) 53-77. [Impact Factor: 2.49](#)
5. **Sarvan Kumar**, Anita Singh and A. K. Singh. **2015**. Impact of 'Holi' festival on Aerosol optical properties in Indo-Gangetic Plain. *International Journal of Advances in Earth Sciences* 4 (1), 19-28. [Impact Factor: NA](#)
6. Devendraa Singh, R. P. Singh, **Sarvan Kumar**, T. Dharmaraja, Abhay K. Singh, Ashok K. Singh and Shubha Singh. **2015**. Lightning and middle atmospheric discharges in the atmosphere. *Journal of Atmospheric and Solar-Terrestrial Physics* 134, 78–101. [Impact Factor: 1.79](#)
7. **Sarvan Kumar**, Sanjay Kumar, D. G. Kaskaoutis, Ramesh P. Singh, R. K. Singh, A. K. Mishra, M. K. Srivastava and A. K. Singh. **2015**. Meteorological, atmospheric and climatic perturbations during major dust storms over Indo-Gangetic Basin. *Aeolian Research* 17, 15–31. [Impact Factor: 2.86](#)
8. D.G. Kaskaoutis, **Sarvan Kumar**, D. Sharma, R.P. Singh, S.K. Kharol, M. Sharma, A.K. Singh, S. Singh, A. Singh and D. Singh. **2014**. Effects of crop residue burning on aerosol properties, plume characteristics and long-range transport over northern India. *Journal of Geophysical Research* DOI: 10.1002/2013JD021357. [Impact Factor: 3.63](#)
9. Devendraa Singh, P.S. Buchunde, R.P. Singh, Asha Nath, **Sarvan Kumar**, R.N. Ghodpage. **2014**. Lightning and convective rain study in different parts of India. *Atmospheric Research* 137, 35–48. [Impact Factor: 4.12](#)
10. A.K. Singh, M. K. Srivastava, Meenakshi Singh, A. Srivastava, **Sarvan Kumar**, Shani Tiwari, B. P. Singh, D. S. Bisht and Suresh Tiwari. **2014**. Characterisation of Atmospheric Aerosol by SEM-EDX and Ion-Chromatography Techniques for Eastern Indo-Gangetic Plain Location, Varanasi, India. *International Journal of Advances in Earth Sciences* 3 (2), 41-51. [Impact Factor: NA](#)
11. **Sarvan Kumar**, Sanjay Kumar, A. K. Singh and R. P. Singh. **2012**. Seasonal Variability of atmospheric aerosol over the North Indian region during 2005-2009. *Advances in Space Research* 50, 1220–1230. [Impact Factor: 1.75](#)

2. Peer Reviewed Conference Proceedings:

1. **Sarvan Kumar**, S. Kumar, M.K. Srivastava and A. K. Singh. 2010. Variation of Aerosol Optical Depth over Indo-Gangetic Basin using AERONET, MODIS and MISR. ***IASTA-2010, Conference Proceeding*** 19(1&2), 395-398.
2. **Sarvan Kumar** and A. K. Singh. 2012. Aerosol radiative forcing over the indo-Gangetic basin during pre-monsoon season (2010). ***IASTA-2012, Conference Proceeding*** 20 (1&2), 571-573.
3. U.C. Dumka, P. C. S. Devera, D. G. Kaskaoutis, **Sarvan Kumar**, S. Tiwari, and A. K. Srivastava. 2016. Characteristics of Carbonaceous Aerosols over Panchgaon a Remote Location in North Western Indo-Gangetic Plain. ***IASTA-2016, Conference Proceeding***22 (1&2), 569-570.
4. U. C. Dumka, P. C. S. Devara, D. G. Kaskaoutis, and **Sarvan Kumar**. 2016. Scattering Coefficient over Panchgaon a Remote Location in North Western Indo-Gangetic Plain. ***IASTA-2016, Conference Proceeding***22 (1&2), 385-387.
5. **Sarvan Kumar**, D. Siingh, R. P. Singh, A. K. Singh and U. C. Dumka. 2016. Influence of Meteorological Parameters and Aerosol Optical Depth on Lightning over Indo-Gangetic Plain. ***IASTA-2016, Conference Proceeding***22 (1&2), 392-394.

Total Citation : **282**

Total Impact Factor : **31.37**

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