

## **Dr. Abhishek Saxena**

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## **Academic Qualification:**

- **Doctorate of Philosophy (PhD)**  
Physics (2010-2017)  
Mohanlal Sukhadia University, Udaipur, India.
- **Master's in Science**  
Applied Physics (2005-2007)  
S.A.T.I. Vidisha (M.P.), India.  
Percentage: 68.1%
- **Bachelor of Science (B.Sc.)**  
Physics (2002-2005)  
University of BU, Bhopal, India.  
Percentage: 53.4%

## **Experience:**

### **Professional Experience:**

**Mohanlal Sukhadia University, Udaipur, India**

PhD Degree (2010-2017)

**Project Title:** Ozone & its Precursors and Studies of Regional Features of Atmospheric and their role in the Atmospheric Radiative Forcing

**Mohanlal Sukhadia University, Udaipur, India**

Junior Research Fellow (2009-2011)

**Topic:** Behavior of Ozone & its Precursors under different Industrial Environment around Udaipur  
Project funded by Department of Science and Technology (DST)

**Mohanlal Sukhadia University, Udaipur, India**

Project Fellow (2011-2017)

**Topic:** Studies of Regional Features of Atmospheric and their role in the Atmospheric Radiative Forcing; Udaipur, western Region Part of. India  
Project funded by Indian Space Research Organization (ISRO-GBP)

### **Teaching Experience**

**Pacific University, Udaipur, India**

Assistant Professor Physics (2017-2021)

**Sangam University Bhilwara, India**

Assistant Professor Physics (2021- Till Now)

PhD Scholars Supervised: 4.

## Skills

**Software Known:** Excel, Word, Origin 6.1& 8, Linux Ubuntu, HDV File

## Awards and Workshops/Conferences

- 18<sup>th</sup> National Symposium on Radiation Physics.
- Presented a paper in International Congress on Recent Advances in Environmental Science & Technology Organized Banaras Hindu University, Varanasi.
- Presented a paper in “17th National Space Science Symposium” Feb, 14-17, 2012 at Srivenkateswara University, Tirupati.
- Presented a paper in “Indian Aerosol Science and Technology Association- 2012” Organized by BARC Mumbai.
- Presented a paper in “Indian Aerosol Science and Technology Association-2014” Organized at BHU Varanasi
- Attended DST-SERC Training programmed on “ Electro dynamical Coupling of Atmospheric Regions” Sponsored by Department of Science & Technology , Government of India, held during 06-19 January 2010,at Indian Institute of Geomagnetism, Navi Mumbai.
- Membership of Professional Body: Life time member in Aerosol, Air Quality and Climate Change Research Society
- Invited Speaker: 2<sup>nd</sup> International Conference on Aerosols, Air Quality, and Climate Change (AAC-2022) Over Himalayan Region of Uttarakhand at 04 - 06 November 2022. Titled: CO, NO<sub>2</sub> and meteorological variables over a long period of parameters over North-West India.
- Best Faculty Award for Research by Aerosol, Air Quality and Climate Change Research Society in 2<sup>nd</sup> International Conference on Aerosols, Air Quality, and Climate Change (AAC-2022) Over Himalayan Region of Uttarakhand at 04 - 06 November 2022.
- Abstract published in Proceeding: 2<sup>nd</sup> International Conference on Aerosols, Air Quality, and Climate Change (AAC-2022) Over Himalayan Region of Uttarakhand at 04 - 06 November 2022.

## List of Publications

- Sutar, D. L., Sharma, S., **Saxena, A.**, Pathan, T. A., & Pensia, R. K. A study of neutral collisions and viscous force on the formation of astronomical objects including with QMHD fluid model. **Radiation Effects and Defects in Solids**, 177(7-8), 727-742, 2022. <https://doi.org/10.1080/10420150.2022.2073884>
- Mund, H. S., Prajapat, P., Dhaka, S., Kumar, S., **Saxena, A.**, & Meena, S. S. Impact of annealing temperature on structural, optical, and Mossbauer properties of Nano crystalline NiFe 2 O 4. **Journal of Materials Science: Materials in Electronics**, 32, 27232-27242, 2021. <https://doi.org/10.1007/s10854-021-07089-6>
- **Saxena, A.**, & Raj, S. Impact of lockdown during COVID-19 pandemic on the air quality of North Indian cities. *Urban Climate*, 35, 100754, 2021. <https://doi.org/10.1016/j.uclim.2020.100754>

- **Saxena, A., & Vyas, B. M.** Total ozone content trend during the last decade over western Indian tropical station i.e. Udaipur. **American Journal of Climate Change**, 5(2), 193-201, **2016**. <http://dx.doi.org/10.4236/ajcc.2016.52018>
- Vyas, B. M., **Saxena, A.**, & Panwar, C. Study of atmospheric scattering and absorbing aerosols at 550nm over nearby western Indian tropical sites of Thar Desert effected region. **In AIP Conference Proceedings** (Vol. 1728, No. 1, p. 020535). AIP Publishing LLC, **2016**. <https://doi.org/10.1063/1.4946586>
- Vyas, B. M., **Saxena, A.**, & Panwar, C. Atmospheric aerosols parameters behavior and its association with meteorological activities variables over western Indian tropical semi-urban site i.e., Udaipur. **In AIP Conference Proceedings** (Vol. 1728, No. 1, p. 020533). AIP Publishing LLC, **2016**. <https://doi.org/10.1063/1.4946584>
- Vyas, B. M., **Saxena, A.**, & Panwar, C. Study of atmospheric air pollutants during the partial solar eclipse on 15 January 2010 over Udaipur: A semi-arid location in Western India. **Advances in space research**, 50(11), 1553-1563, **2012**. <https://doi.org/10.1016/j.asr.2012.07.021>

## Reference

1. **Dr. Rohit Srivastava**, National Centre for Polar and Ocean Research (NCPOR), India.  
Email id --rohits@ncpor.res.in
2. **Dr. Umesh Chandra Dumka**, ARIES, Manora Peak, Nainital, India.  
Email id -- dumka@tifr.res.in

Signature





