

Name of Teaching Staff : Dr. Aditi Kulshrestha

Designation : Assistant Professor

Department : Applied Chemistry

Date of Joining the Institution : 19.01.2015



Qualifications with Class/Grade :
1. Ph.D Chemistry (2010),
St. John's College Agra
2. M.Sc.: Chemistry (2005),
St. John's College Agra
3. B.Sc.: Zoology, Botany, Chemistry (2003),
Agra College, Agra

Total Experience in Years : **Teaching:** 6 years

1. Assistant Professor, Applied Chemistry, D.J. Sanghvi College of Engineering, from 19.01.2015 till date
2. Assistant Professor, Applied Chemistry, Fr. Agnel College of Engineering, Bandra, Mumbai from July 2012 to May 2013.

: **Research:** 5 years

1. **Principal Investigator** (2018-19): Minor Research Grant from Mumbai University.
2. **Senior Research Fellow (Extended)**, CSIR from April 2010 to March 2011 in Department of Chemistry, St. John's College, Agra, India
3. **Instrumentation Scientist/ incharge** from April 2008 to March 2010 in Department of Chemistry, St. John's College, Agra
4. **Project assistant**, DST from July 2007 to March 2008 in Department of Chemistry, St. John's College, Agra, India
5. **Project assistant**, DST from April 2006 to July 2007 in Department of chemistry, St. John's College, Agra, India

Papers Published : **National Journals:** 2

1. Satsangi, P.G., **Kulshrestha, A.**, Taneja, A., Rao, P.S.P., (2011). Measurement of PM10 and PM2.5 Aerosols in Agra, a semi arid region in India. Indian Journal of Radio and Space Physics, 40, 203-210.
2. Massey, D., **Kulshrestha, A.**, Masih, J., Taneja, A., (2008). A Study of the Impact of Associated Fireworks on Air Quality. Indian Journal of Air Pollution Control , VIII, No. 2, pp. 23-29

: **International Journals:** 8

1. **Kulshrestha, A., Massey, D., Masih, J., Taneja, A., 2014. *Source characterization of Trace Elements in Indoor environment at urban, rural and roadside sites in a semi arid region of India. Aerosol and Air Quality Research, 14, 1738-1751.***
2. Massey, D., **Kulshrestha, A., Taneja, A., 2013. *Particulate matter concentrations and their related metal toxicity in rural residential environment of semi-arid region of India. Atmospheric Environment, Elsevier, 67, 278-286.***
3. Massey, D., **Kulshrestha, A., Masih, J., Taneja, A., 2012. *Seasonal Trends Of PM₁₀, PM_{5.0}, PM_{2.5} & PM_{1.0} In Indoor And Outdoor Environments Of Residential Homes Located In North-Central India. Building and Environment, Elsevier, 47, 223-231.***
4. Pipal, A. S., **Kulshrestha, A., Taneja, A. 2011. *Characterization and morphological analysis of airborne PM_{2.5} and PM₁₀ in Agra located in North Central India. Atmospheric Environment, Elsevier, 45, 3621-3630.***
5. **Kulshrestha, A., Bisht, D.S., Masih, J., Massey, D., Tiwari, S., Taneja, A., 2010 *Chemical characterization of water-soluble aerosols in different Residential Environments of Semi Arid Region of India. Journal of Atmospheric Chemistry, Springer, 62, 121-138.***
6. Masih, J., Masih, A., **Kulshrestha, A., Singhvi, R., Taneja, A. 2010. *Characteristics of polycyclic aromatic hydrocarbons in indoor and outdoor atmosphere in the North central part of India. Journal of Hazardous Material, Elsevier, 177, 190-198.***
7. **Kulshrestha, A., Satsangi, P.G., Masih, J., Taneja, A., 2009. *Metal Concentration of PM_{2.5} and PM₁₀ Particles and Seasonal Variations in Urban and Rural Environment of Agra, India. Science of the Total Environment, Elsevier, 407, 6196-6204.***
8. Massey, D., Masih, J., **Kulshrestha, A., Habil, M., Taneja, A., 2009. *Indoor/outdoor relationship of fine particles less than 2.5 μ m (PM_{2.5}) in residential homes locations in Central India region. Building and Environment, Elsevier, 44, 2037-2045.***

:National Proceedings: 8

1. **Kulshrestha A.**, Taneja A., 2018. Particle and trace metal concentration in roadside residences of India. Proceedings, 2nd International conference on Recent Advances in Environment Protection “REAP”, Agra, India 2018. (27-29 November 2018).
2. Jamson Masih, **A. Kulshrestha**, A. Taneja, K. Kumar. Concentration of Polycyclic Aromatic Hydrocarbons (PAHs) In Indoor and Outdoor Air in different Seasons of Rural India. In conference proceeding of National Conference on indoor air Quality, A new challenge in India. Lucknow, February-2011
3. Habil, M., **Kulshrestha , A.**, Taneja, A. Indoor Air Quality in Schools in Different Parts of the World. In conference proceedings of Indian Council of Chemist-27 (AO-CYSA-06), 2008, pp. 211.
4. Jamson Masih, D. Massey, **A. Kulshrestha**, M. Habil, A. Taneja “Indoor Air Pollution in India.” In Green Summit 2008 Organised by Central Pollution Control Board, Ministry of environment & Forest, Govt. of India, at Mughal Sheraton, (March 1-2,) **2008**, Agra, India
5. Habil, M., Massey, D., **Kulshrestha, A.**, Masih, J. and Taneja, A., (2010). *Heavy metal exposure to children in Schools near Roadsides in India. Aerosols and Clouds: Climate Change Perspectives, IASTA BULLETIN, 19, pp. 623-626.*
6. **Kulshrestha, A.**, Satsangi, P.G., Massey, D., Sharma, A., and Taneja, A., (2007). *Study of PM₁₀ and PM_{2.5} Aerosols at Urban and Rural Sites in North Central Part of India during Monsoon.* Mitigation of Pollutants for Clean Environment, Proceedings of NSE-15, pp.281-285.
7. Satsangi, P.G., **Kulshrestha, A.**, Taneja, A., Rao, P.S.P., (2007). Chemical characterization of PM₁₀ in Agra, a Semi-Arid Region. *Emerging Trends in Aerosols: Technology and Applications, IASTA BULLETIN, 18, pp.122-125.*
8. Satsangi, P.G., **Kulshrestha, A.**, Taneja, A., Rao, P.S.P., (2007). *Roadside Concentrations of Particulate matter and NO₂ in Agra.* Mitigation of Pollutants for Clean Environment, Proceedings of NSE-15, pp.254-25.

: International Proceedings: 5

1. **Kulshrestha A.**, Taneja A., 2019. Particle and trace metal concentration in roadside residences of India. Proceedings, 1st ASIAN Conference on Indoor Environmental Quality” organized by ASHRAE (Indian Society of Heating, Refrigerating and Air Conditioning Engineers), SIE (Society for indoor environment) and IAQA (Indoor Air Quality Association), on 1st and 2nd February 2019, New Delhi.

2. **A. Kulshrestha**, A. Taneja., “Chemical characterization of fine Particulate matter in India” Proceeding of the AAAR-2010, International Conference organized by The **American Association for Aerosol Research held at San Diego, California, U.S.A. 2010.**
3. Massey, D., **Kulshrestha, A.**,Taneja, A. *A study on indoor outdoor concentration of particulate matter in rural residential housed in India.* International conference on Environmental and computer science (ICECS 2009) held on 28-30 December 2009 **Dubai**, UAE, doi: 10.1109/icecs.2009.45 pg 218-223.
4. Masih, J., **Kulshrestha, A.**, Massey, D., Habil, M., Taneja, A., 2009. *Indoor/ outdoor levels of Polycyclic Aromatic Hydrocarbons (PAHs) in the Rural India: A case study.* Proceeding of **International Symposium on Environmental Pollution, Ecology and Human Health**, pp 45-49.
5. D. Massey, **A. Kulshrestha**, M. Habil, A. Taneja. “Particulate in indoor air environment” Proceedings, Symposium of International conference “REAP”, Agra, India 2009.

PhD Guide ? Give field & University : --

PhDs / Projects Guided : PhDs --
:Projects at Masters level --

Books Published / IPRs / Patents : **Chapter published: one**

Ajay Taneja, A., Habil, M. and **Kulshrestha, A.** 2011, Particles in the Indoor Environment: Sources and Health Effects in Developing Countries. Chapter 1 in Particulate Matter: Sources, Emission Rates and Health Effects , ISBN: 978-1-61470-948-0, Editors: Henrik Knudsen and Niels Rasmussen, Nova Science Publishers, Inc.

Professional Memberships : **Life member** of The Society for Indoor Environment (SIE) since 2019.
Life member of The Indian Society for Technical Education (ISTE) since 2017.

Consultancy Activities : --

Awards: Young Champion of Indoor Environment award by Springer Nature India Private Ltd. For a paper presentation during (ACIEQ): ASIAN Conference on Indoor Environmental Quality, 2019.

Awarded with Senior Research Fellowship (Extended) by CSIR in 2010

Grants Fetched: Rs. 30,000/- by Mumbai University 2019 (Minor research Grant)
Rs. 2,96,000/- by CSIR in 2010. (Senior Research Fellowship-ext)

Interaction with Professional Institutions

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1. **Guest lecture in AICTE-ISTE** approved two week STTP on 'Environmental Studies- A Multidisciplinary approach' organized by Department of Humanities and Science, Fr. Conceicao Rodrigues College of Engineering, Mumbai, to deliver talk on 'Indoor Air Pollution' on 8 May 2014
 2. Visited United State Environment Protection Agency, Environment Response Team (USEPA, ERT) of New Jersey, Edison U.S.A. and had a vital discussion on the analysis of Hg, PAHs, Heavy metals in the air with Dr David Wright (Director, USEPA), Dr. Henry Allen (Chemist USEPA) and Dr. Raj Singhvi (Chemist) USEPA, ERT, New Jersey USA- on 29th March 2010.

Workshops and FDPs : 7

1. Qualified **12 week NPTEL** online organized by IIT Khadagpur course on "Solid waste management for a smart city" **credit points:3**, Grade: Elite. August 2018-October 2018.
2. One day workshop on *150 years of Periodic Table*. Organised by Deptment of Physics, Mumbai University under UGC Chapter on 3rd November 2018.
3. National Workshops / Training on "**New Trends in Forensic Science, Forensic Medicine and Technology**" at Department of Forensic Science, Dr. B.R.A. University and Department of Forensic Medicine and Toxicology, S.N. Medical College, Agra, March 2009.
4. Attended **International Workshop on Nanotechnology**, organized by Department of Chemistry and Physics, Agra University Agra in December 2009
5. Trained on **SPSS 17 (Statistical software)** under Faculty Development Program organized by SPSS South Asia and Institute of Social Science. Dr. B.R.A. University, Agra in February, 2009.
6. Completed training on the operation of **Grimm 31-channel Portable Aerosol Spectrometer** Model 1.109 and its application software in October 2007.
7. Participated in a workshop on "**Applied Air Pollution Inventory Workshop**" in 2006, organized by NEERI, CPCB, USEPA, USAID, ADB and Ministry of Environment and Forest