



Dr. Venkanna Rapolu

Faculty Id	:	
Date of Birth	:	22June , 1987
Designation	:	Assistant Professor.
Years of Experience	:	Teaching : 2 years Research : 5 years
Email Id	:	venkannarapolu@kgr.ac.in ; venkanna.rapolu21@gmail.com
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Employment Status	:	Full Time - Ratified by JNTUH
Areas of Specialization	:	<ul style="list-style-type: none">• Atmospheric trace gas chemistry, transport and modeling• Chromatographic Studies• Inorganic and Co-ordination Chemistry• Nano meterials• Electrochemistry
UG Degree	:	B.Sc ,2007, Nagarjuna Govt degree college, Nalgonda, Telangana
PG Degree	:	Analytical Chemistry, 2010, NIT Warangal, Telangana.
Ph.D	:	Chemistry, 2016, CSIR-IICT; Andhra University, Visakhapatnam.
Ph.D Thesis topic	:	Chemistry of Ozone Precursor Gases and Its Impact on Urban Air Quality: Inter-Comparison with Satellite Observations over a Tropical Urban Site – Hyderabad, India
UG Subjects Taught	:	Engineering Chemistry, Environmental studies
PG subjects Taught	:	-

Projects handled
(Consultancy)

: -

Papers Published: 7

International Journals

- ☞ **R. Venkanna**, G.N. Nikhil, P.R. Sinha, T.S Rao, YV Swamy (2016) Role of lightning phenomenon over surface O₃ and NO_x at a semi-arid tropical site Hyderabad, India: inter-comparison with satellite retrievals. *Theoretical and Applied Climatology*, 125 (3-4): 691-704.
- ☞ **R. Venkanna.**, G.N.Nikhil,, T. Siva Rao. P.R.Sinha, Y.V. Swamy (2015). Environmental monitoring of surface ozone and other trace gases over different time scales: Chemistry, Transport, and Modeling. *International Journal of Environmental Science and Technology*. 12 (5): 1749-1758.
- ☞ **R. Venkanna**, G. N. Nikhil & P. R. Sinha & T. Siva Rao & Y. V. Swamy (2015). Significance of volatile organic compounds and oxides of nitrogen on surface ozone formation at semi-arid tropical urban site, Hyderabad, India. *Air Qual Atmos Health*. DOI: 10.1007/s11869-015-0347-2.
- ☞ Y.V. Swamy, **R. Venkanna**, G.N.Nikhil, D.N.S.K. Chitanya, P.R. Sinha, M. Ramakrishna, A. Gangagni Rao (2012). Impact of nitrogen oxides, volatile organic compounds and black carbon on atmospheric ozone levels at a semi arid urban site in Hyderabad. *Aerosol and Air Quality Research*, 12: 662–671.
- ☞ Y.V. Swamy, G.N. Nikhil, **R. Venkanna**, D.N.S.K. Chitanya, P.R. Sinha, S. Shailaja and A.G. Rao (2013). Role of nitrogen oxides, black carbon, and meteorological parameters on the variation of surface ozone levels at a tropical urban site – Hyderabad, India. *Clean – Soil, Air, Water* 2013, 41(3): 215–225.
- ☞ Y.V. Swamy, A.R. Sharma, G.N. Nikhil, **R. Venkanna**, D. N. S. K. Chitanya, P.R. Sinha (2013). The impact assessment of Diwali fireworks emissions on the air quality of a tropical urban site, Hyderabad, India, during three consecutive years. *Environment Monitoring and Assessment*. 185: 7309-7325.
- ☞ Y.V. Swamy, G. N. Nikhil, **R. Venkanna**, S.N. Das, G.R. Chaudhury (2012). Emissions of methane and nitrous oxide from vigna mungo and vigna radiata legumes in India during the dry cropping seasons. *Atmosfera*. 25(1): 107-120.

Papers reviewed as Reviewer: None

Membership/Participations:

- ☞ Participated in “Training program on Green house gas management” held at Hyderabad on 25-26 September 2014.
- ☞ Participated in “2nd Indian International Symposium on Fluorine Chemistry (IISFC - 2014)” November, 2014 at CSIR - Indian Institute of Chemical Technology Hyderabad, India
- ☞ Participated in “National Symposium on Recent Trends in organic and Medicinal Chemistry” at NIT Warangal in 2010
- ☞ Participated in “National level entrepreneurship program” organized by Department of Biotechnology in August 2012.

Workshops attended:

- ☞ Presented a paper on “Atmospheric chemistry of surface ozone formation at an urban tropical site in India- Recent observations of temporal trends and special events” at IITM-WMO International workshop on Changing Chemistry in Climate Change: monsoon, IITM Pune, 30th April to 3rd May 2013.
- ☞ Presented a paper on “Photo oxidation of precursor trace gases and their role in the formation of surface ozone” at a National level conference on Facing Challenges on Climate Change: Earth and Atmospheric systems (FCCC-2012) organized by department of Physics, SKU Ananthapur during 30-31 October 2012.
- ☞ Presented a paper “Diurnal variation of air pollutants at a tropical site in Hyderabad” at a National seminar on Recent Advances in Analytical Sciences - Indian Perspective, CSIR-IICT, Hyderabad, 20-21 January 2011.
- ☞ Presented a paper “Diurnal variation of O₃, NO_x, black carbon and NMHCs at a tropical urban site Hyderabad” at Interface between Chemical Sciences and Technologies, NIT Warangal, 29-30 December 2011.

Achievement

☞ Qualified GATE-2010 through a National level exam conducted by Indian Institute of Technology Gawhati, Govt. of India.

Books Published:

None

Research Projects Undertaken:

None