



Department of Freshman Engineering

Faculty Profile

Name : Dr. Venkanna Rapolu
Designation : Assistant Professor (Chemistry)
Qualification : M.Sc., Ph.D.
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Publications:

1. **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.
2. **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.

3. **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.
4. 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.
5. 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.
6. 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.
7. 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.
8. **Venkanna.R**, Srinivasarao.Tumati, A.Revathi (2018). Dissolution test method and hplc analysis for lansoprazole pellets dosage forms. *International Journal of Technical Innovation in Modern Engineering & Science*, 4(8): 904-906.
9. Srinivasarao.Tumati, Revathi. A, **Venkanna.R** (2018). Assay Determination of Rabeprazole Pellets Dosage forms by HPLC. *International Journal of Science and Research*. 7(7): 792-794.
10. Srinivasarao.Tumati, B.C.K Reddy, Srinivas Rao. Rayapati, **Venkanna. R** (2018). HPLC method for determination of impurity profile in ibuprofen 200 mg and methocarbamol 500mg caplets. *International Journal of Scientific Research and Review*. 7(11): 72-76.
11. **Venkanna R**, A. G. Rao, Y.V. Swamy. Srinivasarao (2018). Tumati. Long Term Measurement of Surface Ozone and Its Precursor's at Hyderabad - a Tropical Urban Site. *International Journal of Research in Advent Technology*. E-ISSN: 2321-963. Pg 166-176.

12. Srinivasarao.Tumati, Srinivasarao.Rayapati, **Venkanna.R**, Naveen Reddy. Thuniki (2018). Formulations and Analytical Method Developments for Poor Soluble Drugs: A Review on Applications of Nano Chemistry. *International Journal of Research in Advent Technology*. E-ISSN: 2321-963. Pg 251-254.

Presentations in International Conferences:

1. 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.
2. 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.

Participation in Workshops / Conferences:

1. Participated in “Training program on Green house gas management” held at Hyderabad on 25-26 September 2014.
2. Participated in “2nd Indian International Symposium on Fluorine Chemistry (IISFC - 2014)” November, 2014 at CSIR - Indian Institute of Chemical Technology Hyderabad, India
3. Participated in “National Symposium on Recent Trends in organic and Medicinal Chemistry” at NIT Warangal in 2010
4. Participated in “National level entrepreneurship program” organized by Department of Biotechnology in August 2012.
5. 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.

6. 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.

Faculty development programs attended:

1. “FDP on Research Methodologies” held at Sphoorthy Engineering College, Hyderabad. & E&ICT academy. During 22-27 July 2019.
2. Leadership Building - Out Bound Program. Organized by SPhoorthy Engineering College on 11th December 2021.
3. “5-day online faculty development programme on research methodology” conducted online by Mallareddy engineering college for women, Hyderabad. During 27-31st July 2020.
4. “National Level Faculty Development Program on “Online Social Network”” conducted online by MIT Art Design and Technology University, Pune MIT School of Engineering. 20th to 25th July 2020.
5. “7- days FDP on Contemporary Amelioration in Nano Structured Materials” conducted online by Jeppiaar Engineering college, Chennai-600119. During 21st to 27th August 2020.
6. Applied Chemistry to Design Smart Materials for Device Applications. conducted online by Geethanjali College of Engineering and Technology. During 20-24 Sep-2021.

MOOCS completed

1. “Chemistry of main group elements” organized by NPTEL-IIT Bombay. During April 2022
2. “Introduction to Physical Chemistry” organized by Coursera- Manchester University. During May-2020
3. “Introduction to Thermodynamics: Transferring Energy from Here to There” organized by Coursera - University of Michigan. During July-2020
4. “Introduction to Molecular Spectroscopy” organized by Coursera -Manchester University. During May-2020
5. “Quantum Mechanics” organized by Coursera - University of Colorado. During May -2020
6. “Air Pollution – a Global Threat to our Health” organized by Coursera - University of Copenhagen. During May -2020
7. Verb Tenses and Passives” organized by Coursera - UCI division of continuing education. During August -2020