

### **Personal Information**

Name	Dr. CHENNURI BHARATH KUMAR
Years of Experience	Teaching: 06 Years
CN ID	CB1831
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Areas of Specialization	Physical Chemistry



### **Educational Qualifications**

Doctoral Degree	Ph.D.	Chemistry
PG Degree	M.Sc.	Physical Chemistry
UG Degree	B.Sc.	Biotechnology, Zoology, Chemistry

### **Papers Published**

#### **International Journal Publications**

1. **Bharath Kumar Chennuri**, B. Sravanthi , A Srivani, K.Madhavi, M.Sudhas B.Srinu, K.Santosh Kumar Smart Laboratories: Integrating AI for Efficient Chemical Analysis (2024) *Journal of Chemical Health Risks* 14, 255-261.
2. Vemula Madhavi, Ambavaram Vijaya Bhaskar Reddy b, **Bharath Kumar Chennuri** Insights into nanocomposite materials for gas sorption applications (2024) *Nano-Structures & Nano-Objects* 38, 101127.
3. Sreedhar Pandiri, Santosh Kumar Konda, **Bharath Kumar Chennuri**, Premalatha Akarapu, Mahesh Nuka,d Amrita Sahae Srinu Bhoomandlaa (2023) Novel oxo-5-(trifluoromethyl)quinazoliny l amide derivatives and their anticancer activity. *Research Square*,
4. B. Susrutha, **Bharath Kumar Chennuri**, S. Chandrasekhar, Chinthamreddy Amaravathi, N.Mahesh, Amrita Saha (2023). Machine Learning in Drug Discovery: Innovations at the Molecular Level. *Journal of Chemical Health Risks* 13, 1204-1211.
5. N. Hari Krishna, S Karlapudi, **Bharath Kumar Chennuri**, R L Gardas, K. Sivakumar (2022). Synthesis, spectroscopic characterization and apparent molar properties of ethanolanmonium based ionic liquids with DMSO. *Chemical Thermodynamics and Thermal Analysis* 8, 100076.
6. **Bharath Kumar Chennuri**, Venkatramana Losetty, K. Sreenivasulu, Ramesh L. Gardas , K. Sivakumar (2022) Study of thermophysical properties of binary mixtures of *N* -phenyl ethanolanmonium based protic ionic liquids with water and ethanol solvents. *Journal of Ionic Liquids* 2 (2022) 100015.
7. Venkatramana Losetty, C. Hazarathaiah Yadav, K. Ashwini, **Bharath Kumar Chennuri**, K. Sivakumar (2022) Study of Solvation Behavior Thermodynamics and FT-IR Spectroscopic Analysis of

- N*-Butylethanolammonium Based Ionic Liquids with Polar Solvents. *Journal of Molecular Structure* 1254 (2022) 132393.
8. **Bharath Kumar Chennuri**, P. Bhanuprakash, C. Narasimha Rao, Ramesh L. Gardas, K. Sivakumar (2021) Excess volume, speed of sound and isentropic compressibility data of ternary mixtures containing N-methylcyclohexylamine, p-xylene and (C3-C5) 1-alkanols. *Chemical Data Collections* 31 (2021) 100610.
  9. Anu Aravind Thoppil, **Bharath Kumar Chennuri**, Ramesh L. Gardas (2019) Thermodynamics and micellization behavior of ethanolammonium carboxylate surface active ionic liquids in aqueous media. *Journal of Molecular Liquids* 299 (2020) 112-116.
  10. Anu Aravind Thoppil, **Bharath Kumar Chennuri**, Ramesh L. Gardas (2019). Insights into the structural changes of bovine serum albumin in ethanolammonium laurate based surface active ionic liquids. *Journal of Molecular Liquids* 290 (2019) 111229.
  11. **Bharath Kumar Chennuri**, Venkatramana Losetty, Ramesh L. Gardas (2017). Thermophysical properties of N-phenyl-N-ethanol ammonium carboxylate based ionic liquids: measurements, correlations and COSMO-RS study. *Journal of Molecular Liquids* 241 (2017) 246-254.
  12. Indrajit Das, **Bharath Kumar Chennuri**, Ramesh L. Gardas (2017). Understanding the solvation behavior of tetramethylguanidinium based ionic liquids in dilute aqueous solutions through apparent molar properties. *Journal of Molecular Liquids* 242 (2017)129-136.
  13. **Bharath Kumar Chennuri**, Ramesh L. Gardas (2016). Measurement and correlation for the thermophysical properties of hydroxyethyl ammonium based protic ionic liquids: Effect of temperature and alkyl chain length on anion. *Fluid Phase Equilibria* 427 (2016) 282-290.
  14. Venkatramana Losetty, **Bharath Kumar Chennuri** Ramesh L. Gardas (2016). Synthesis, spectroscopic characterization and acoustic, volumetric, transport and thermal properties of hydroxyl ammonium based ionic liquids. *Journal of Chemical Thermodynamics* 92 (2016) 175-181.
  15. Nagaraju Devunuri, Suman Kancherla, **Bharath Kumar Chennuri**, Ramesh L. Gardas (2016). Apparent molar volume and isentropic compressibilities of antidepressant drugs (Citalopram HBr and Escitalopram oxalate) with water. *Journal of Molecular Liquids* 216 (2016) 347-353.
  16. Nagaraju Devunuri, Nagaraj Amminabavi, **Bharath Kumar Chennuri**, Venkatramana Losetty, Ramesh L. Gardas (2016). The structural effect on volumetric and acoustic properties of aqueous anti-HIV drugs (Emtricitabine and Lamivudine) at various temperatures. *Journal of Molecular Liquids* 214 (2016) 214-219.
  17. **Bharath Kumar Chennuri**, Venkatramana Losetty, Ramesh L. Gardas (2015). Apparent molar properties of hydroxyethyl ammonium based ionic liquids with water and ethanol at various temperatures *Journal of Molecular Liquids* 212 (2015) 444-450.
  18. Venkatramana Losetty, **Bharath Kumar Chennuri**, Ramesh L. Gardas (2015). Thermophysical and spectroscopic study of pure N-methylcyclohexylammonium based ionic liquids. *Journal of Chemical Thermodynamics* 90 (2015) 251-258.

19. Suresh Ryshetti, **Bharath Kumar Chennuri**, Raghuram Noothi, Savitha Jyostna Tangeda, Ramesh L. Gardas (2014). Volumetric properties of betaine hydrochloride drug in aqueous NaCl and KCl solutions at different temperatures. *Thermochimica Acta* 597 (2014) 71-77.

### *International Conference*

1. **Bharath Kumar Chennuri**; Losetty, V.; Gardas, R. L. A. "Compressive Study on Thermo-physical Properties of Hydroxyethylammonium Based Ionic Liquids". *EuChem- 2016*. 03-08 July-16, Vienna, Austria. (**Poster Presentation**)

### *National Conference*

1. **Bharath Kumar Chennuri**, Ramesh L. Gardas. "Effect of Cation on Micellization Behavior in Aqueous Ammonium Based Surface Active Ionic Liquids: Experimental and DFT Calculations". *CRSI- ACS & CRSI NSC-21 symposium* held at 14-16 July 2017, CSIR-IICT. (**Poster Presentation**)
2. **Bharath Kumar Chennuri**, Venkatramana Losetty, Ramesh L. Gardas "Physicochemical and Rheological Properties of Aniline Based Ionic Liquids" in *Frontiers in Chemical Sciences And Technologies* held at 28-29 January 2016, Department of Chemistry, NIT Warangal. (**Poster Presentation**)
3. **Bharath Kumar Chennuri**, Venkatramana Losetty, Ramesh L. Gardas, "Thermophysical and Rheological Properties of N-phenyl Hydroxyethyl Ammonium Based Ionic Liquids" in *Thermodynamics of Pharmaceutical, Chemical and Biological Systems* held at 20-21 November. 2015, Department of Chemistry, Punjab University, Chandigarh. (**Poster Presentation**)
4. **Bharath Kumar Chennuri**, Ramesh L. Gardas, "Volumetric and Acoustic properties of novel N-Methylethanolammonium acetate Ionic Liquid and its mixture with polar solvents" in *Thermodynamics of Chemical, Biological and Environmental Systems-2013* held at 25-26 November, 2013 at Babasaheb Bhimarao Ambedkar University, Lucknow, U.P. India. (Poster Presentation)

### *Workshops / Faculty Development Programme (FDP's) Organised:*

1. One day Workshop on "Healthcare Systems Engineering and Advanced Data Analysis" organized by Binghamton University with BVRIT HYDERABAD College of Engineering for Women on 7<sup>th</sup> Nov. 2023.
2. One day international webinar on "Empowering Diversity in Science" organized by Dept. of Chemistry Kamla Nehru Mahavidyalaya, Nagpur on 16th Feb. 2022.
3. One day national webinar on "Science vs Pseudo Science" organized by Jana Vignana Vedika (JVV)- TS, Breakthrough Science Society (BSS)-TS & O.Y.S.T.E.R. on 9th August, 2021.

4. One day national webinar on “Role Of Chemists In Fighting Covid-19” organized by Department of Chemistry, Vaagdevi Degree and PG College, Hanamkonda on 7.08.2021
5. Two days international webinar on “Emerging Technologies in Drug Delivery and Development” Organized by Department of Chemistry, Nizam College, Osmania University on 04th - 05th September 2020.
6. One day International webinar on “Challenges in Drug discovery-A Global need” organized by the Department of Chemistry, University College of Science, Satavahana University, Karimnagar, Telangana, India, on 25th August, 2020.
7. International webinar on “Advanced functional materials” organized by Department of Chemistry & Physics, Nizam College, Osmania University, Hyderabad, Telangana State, India. held during 18th – 21st August 2020
8. One day International webinar on “Role of chemists in discovery of drug and vaccine for COVID-19” organized by the Department of Chemistry, University College of Science, Satavahana University, Karimnagar, Telangana on 16th August, 2020.
9. One day International webinar on “Recent Advances in Organic Synthesis & Clinical Trial Process for Drug Approval” organized by the Department of Chemistry, University College of Science, Osmania University, held on 3rd August, 2020.
10. One day International webinar organized by Department of Chemistry, Chaitanya deemed university held on 1st Aug 2020.
11. International virtual conference on “Modern instrumental and characterization techniques in Applied Sciences-2020 (MICTAS-2020)” organized by MIET Kumaon Haldwani & Department of Chemistry, H.N.B. Govt. P. G. College, Khatima, and Uttarakhand during 5-6 July 2020.
12. One week International faculty development programme on “Control theory and applications” organized by Vignan Institute of Technology & Science in Association with Telangana Academy for Skill and Knowledge (TASK) during 29th June to 3rd July 2020.
13. One week national level faculty development programme on “Yje role of a teacher in Nation building” organized by Keshav Memorial Institute of Commerce and Sciences” during 3rd – 9th Aug 2020.
14. One day national level webinar on “Student life during the pandemic : Challenges and Responsibilities” organized by TQAC Chatra Ramai Pandil Mahavidyalaya on 8th September, 2020
15. National level one day webinar on “Innovative practices of Teaching & Learning in Sciences” organized by Dept. of Physics (Humanities & Sciences), Balaji Institute of Technology and Science on 21 Aug 2020.
16. National level one day webinar on “Magnetic field effects on TiO<sub>2</sub> based DSSC solar cells” organized by Vignana Bharathi Institute of Technology on 20th Aug 2020.

17. Two days national level webinar on “Online teaching tools for the faculty” organized by the Department of Chemistry, University college of science, Osmania University, Hyderabad during 5th - 6th Aug 2020.
18. One day national level workshop on “Deep Eutectic Solvents for Environmental Remediation and Energy Storage” organized by Indian Institute of Technology Guwahati, Assam, India during on 29th-30th July 2020.
19. Three days national webinar on “Chemistry-Concepts and Career Opportunities” organized by the Department of Chemistry, S.I.W.S. N.R. Swamy College of Commerce & Economics and Smt. Thirumalai College of Science, Wadala, Mumba on 16th – 18th July 2020.
20. National level three days webinar on “Scope of nanomaterial in Engineering and Technology” organized by Marathwada Mitramandal’s College of Engineering, Pune during on 9th – 11th July 2020.
21. Two days national level webinar on recent advances in chemical sciences” organized by Department of Chemistry, JB Institute of Engineering and Technology during 25th & 26th June 2020.
22. National level one week Faculty Development Programme on Internet of Things (IOT) organized by Anurag University, Hyderabad during 2nd- 6th June 2020
23. Attended „ACS on Campus“ event on 10 February 2015 at the University of Madras, Chennai, India.
24. Workshop on „Royal Society of Chemistry Indian Roadshow workshop“ on 10th November 2014at IIT Madras, Chennai, India.
25. An Indo-Spanish Workshop on „Solar Absorption Refrigeraton Systems Operating with Ionic Liquids-2014“, 21-22 February 2014 at IIT Madras. India.
26. National Seminar on „Current Research Trends and Developments in Chemical Sciences-2013“, 09-10 March, 2013 at P.V.K.N. Govt. College, Chittoor, Tirupati-India.

### ***Extra-Curricular Activities***

1. Got certificate on national level e-quiz on “Chemistry in daily life” organized by Dept. of Chemistry, Balaji Institute of Technology and Science on 29 Aug 2020.
2. Got certificate on national level e-quiz on “Chemistry” organized by Deccan College of Engineering and Technology, Hyderabad on 28<sup>th</sup> Aug 2020.
3. Got certificate on national level e-quiz on “Basic chemistry” organized by Chaitanya deemed university, Hanmakonda, Warangal on 31<sup>st</sup> July 2020.
4. Got certificate on national level e-quiz on “Theory of Quantitative Analysis” organized by Department of Chemistry, SVCR Govt. Degree College, Palamaner on 27<sup>th</sup> July 2020.

5. Got certificate on national level e-quiz on “Engineering Chemistry” organized by Joginpally B.R. Engineering College, Rangareddy, Hyderabad on 25 July 2020.
6. Got certificate on national level e-quiz on “Organic Chemistry” organized by Department of Chemistry, Sr&bgnr. Government College (Autonomous) khammam, Telangana on 17 July 2020.
7. Got certificate on national level e-quiz on “Basic concept of chemistry in daily life” organized b
8. Got certificate on national level e-quiz on “Chemistry” organized by Department of Chemistry, SR&BGNR. Government college (Autonomous) khammam, Telangana on 10<sup>th</sup> July 2020.
9. Got certificate on national level e-quiz on Spectroscopy” organized by Department of Chemistry, Government degree & PG college, Siddipet, Telangana on 6<sup>th</sup> July 2020.
10. Got certificate on national level e-quiz on “Basics of probability & Statistics” organized by Vaagdevi Institute of Technology and Science, Prodduturi, Andhra Pradesh on 22<sup>nd</sup> Jun 2020.
11. Got Certificate from **Students Talent Promotion Examination**.
12. Actively participated as a Volunteer in **National Science Day-2016** held at IIT Madras.
13. Life Member in **The Indian Thermodynamics Society**.
14. Participated in One Day National Seminar on **CHEMISTRY FOR HUMAN WELL BEING** and got the **SECOND PRIZE** on QUIZ.