



## Dr. Boodida Sathanarayana

M. Sc., Ph. D.

**Assistant Professor (Academic Level-12) & Head of the Department**

**Indian Science Congress Association (ISCA); The Indian Thermodynamic Society (ITS), Indian Society for Technical Education (ISTE)**

Chemistry

### Areas of Interest:

Synthetic Chemistry,  
Physico chemical properties of Ionic liquids  
Analytical Chemistry

Dr. Sathanarayana Boodida obtained his Ph. D. from Kakatiya University in 2007. After his Ph.D., he worked as Research Associate (CSIR) at IIT Bombay for three years and one year as Dr. D. S. Kothari Postdoctoral Fellow at University of Hyderabad. He also qualified NET-JRF (UGC) in 2001 and secured UGC-JRF and UGC-SRF in 2002 and 2004 respectively.

He joined in this Department in January, 2023. Earlier, he worked at Department of Chemistry, JNTUH UCEJ. He has put up 13 years of teaching experience and 18 years of research experience.

### ADMINISTRATIVE EXPERIENCE:

In addition to his academic responsibility, he also involved in administrative responsibilities, such as **Head of the Department**, Hostel affairs as **Hostel Manager** and **Faculty In-charge** of Department of Physical Education, **NSS Programme Officer** and **Officer In-charge** for Academic Section (OAS) at the institution level at JNTUH UCEJ.

He also contributed as Member of District Level Expert Appraisal Committee (**DEAC**) for Jagtial District.

### RESEARCH:

In addition to his active contribution towards administration, he also engaged himself in research activities. His research is devoted to the development of novel organic compounds which are biologically active.

### - > Educational & Professional

#### - > Academic Qualifications

- > Ph.D in CHEMISTRY, KAKATIYA UNIVERSITY (2002-2007)

- >

M. Sc. in CHEMISTRY, OSMANIA UNIVERSITY with FIRST DIVISION (1999-2001)

#### - > Professional Experience

#### - > Industrial Experience

- > RESEARCH ASSOCIATE (CSIR), IIT BOMBAY, MUMBAI (2007 - 2009)

- > Dr. D. S. KOTHARI FELLOW (UGC), UNIVERSITY OF HYDERABAD (2009 - 2010)

#### - > At JNTUH

- > ASSISTANT PROFESSOR (Selection Grade), JNTUH UCEJ (2019 - Till Date)

- > ASSISTANT PROFESSOR (Sr. Scale), JNTUH UCEJ (2014 - 2019)

- > ASSISTANT PROFESSOR, JNTUH UCEJ (2010 - 2014)

#### - > Books

- > Dr. B. Sathanarayana, Dr. V. JYothi, Dr. K. Suresh Babu, Mrs. D. Swathi Devi, Dr. P. Vishnuvardhan Reddy, *Chemistry for Engineers*, Seven Hills International Publishers, 978-93-88096-22-5, 2019

#### - > Publications

- Boodida, S.\*; Gudla, P.; Maddula, S. R., *An Efficient, Novel Synthetic Route to (R)-Salmeterol Xinafoate and Facile Synthetic Protocols for Preparation of its Process Related Potential Impurities*, Asian J. Chem. , Vol No. 34, Issue No.12, pp.3333-3352, 2022
- Boodida, S.\*; Gudla, P.; Maddula, S. R., *Synthesis, Isolation And Characterization Of Related Substances, Degradation And Potential Impurities of Iloperidone*, Int. J. Curr. Adv. Res., Vol No.11, Issue No.6, pp.1058-1071, 2022
- Boodida, S.\*; Gudla, P.; Maddula, S. R., *Facile Synthesis, Isolation and Characterization of 1-(4-Hydroxy-3-methoxyphenyl)ethanone (Acetovanillone) and its Isomeric Related Substances as Key Starting Materials for an Antipsychotic Drug: Iloperidone*, Asian J. Chem. , Vol No.34, Issue No.5, pp.1245-1254, 2022
- Vankalapati, K. Rao; Alegete, P.; Boodida, S\*, *Stability-indicating HPLC method development and validation for simultaneous estimation of metformin, dapagliflozin, and saxagliptin in bulk drug and pharmaceutical dosage form.*, Biomed. Chromatogr. , Vol No.36, Issue No.7 , 2022
- Koduri RG, Pagadala R, Boodida S\*, Varala R, *5Ultrasound Promoted Synthesis of 2-Amino-4-H-Pyranoquinolines Using Sulphated Tin Oxide as a Catalyst*, Polycycl. Aromat. Compd. , Vol No.42, Issue No. 10, pp.6908-6916, 2021
- Vankalapati, K. Rao; Alegete, P.; Boodida, S\*, *A Rapid RP-HPLC Stability Indicating Method Development and Validation of Moxifloxacin Hydrochloride Related Substances in Finished Dosage Forms*, Biomed. Chromatogr. , Vol No.35, Issue No.11, Wiley Publishers, 2021
- Vankalapati, K. Rao; Alegete, P.; Boodida, S\*, *Stability Indicating UPLC method Development and Validation for Simultaneous estimation of Metformin, Empagliflozin and Linagliptin in Bulk and Pharmaceutical Dosage Form*, Biomed. Chromatogr. , Vol No.35, Issue No.4, Wiley Publishers, 2021
- Koduri R G, Pagadala R, Varala R, Boodida S\*, *An effective process for the synthesis of dihydropyridines via SO<sub>4</sub>?/SnO<sub>2</sub>?catalyzed Hantzsch reaction*, J. Chin. Chem. Soc. , Vol No.68, Issue No. 2, pp.333-337, 2020
- Koduri R G, Pagadala R, Boodida, S\*, Varala R, *SO<sub>4</sub>?/SnO<sub>2</sub>?catalyzed cyclo-condensation for the synthesis of fully functionalized pyridines*, J Heterocyclic Chem., Vol No.57 , Issue No.2, pp.923-928, 2019
- Kamidi, V.; Kale, P.; Boodida, S\*, *A New Synthetic Approach to Prostaglandin Analogues: Synthesis of Bimatoprost via Lipase Enzymatic Catalysis*, Asian J. Chem. , Vol No.29, Issue No.12, pp.2767-2770, 2017
- Koppula, A. J.; Patwari, M. K.; Nallani, S.; Boodida, S\*, *Transport Properties of Binary Liquid Mixtures of ?butyrolactone + Aliphatic Alcohols Studied in the Temperature Range of (303.15 to 313.15) K*, Int. J. Eng. Res. Tech., Vol No.6, Issue No.7, pp.586-590, 2017
- Alegete, P.; Kancherla, P.; Kesari, S.; Yedlapalli S. S. Rao; Boodida, S\*, *Validation of HPLC-MS Method in Positive ion Mode for Estimation of Phenytoin in Human Plasma Using Phenytoin D10 as Internal Standard*, Asian J. Chem., Vol No.29, Issue No.8, pp.1845-1852, 2017
- Alegete, P.; Kancherla, P.; Saeed S. Albaseer; Boodida, S\*, *A Validated Liquid Chromatography? Tandem Mass Spectrometric (LC-MS/MS) Method for the Estimation of Fulvestrant in Human Plasma*, Orient. J. Chem., Vol No.33, Issue No. 3, pp.33258-33267, 2017
- Alegete, P.; Kancherla, P.; Saeed S. Albaseer; Boodida, S\*, *Simultaneous Quantification of Risperidone and Escitalopram in Human Plasma by LC-MS/MS: Application to A Pharmacokinetic Study*, Int. J. Pharm., Vol No.6, Issue No.2, pp.246-256, 2016
- Vijendhar, K; Srinivas, B; Boodida, S\*, *A Facile and Efficient Synthesis of (15R)-Latanoprost from Chiral Precursor Corey Lactone Diol*, J. Chem. Sci., Vol No.127, Issue No.11, pp.2023-2028, 2015
- Gudla, P.; Boodida, S\*, *A Facile Synthesis of 5-(2-Bromo-4-Methylthiazol-5-yl)-3-(Methylthio)-1H-Pyrazole*, J. Appl. Chem., Vol No.4, Issue No.1, pp.318-322, 2015
- Koppula, A. J.; Nallani, S; Boodida, S, *Ultrasonic and Volumetric Investigations of ?-Butyrolactone with Aliphatic Alcohols*, Int. J. Eng. Res. Appl., Vol No.4, pp.164-167, 2014
- Alegete, P.; Kancherla, P.; Saeed S. Albaseer; Boodida, S\*, *A fast and reliable LC-MS/MS method for simultaneous quantitation of Fluoxetine and Mirtazapine in human plasma*, Anal. Methods, Vol No.6, pp.7407-7414, 2014
- Mathur, P.; Rai, D. K.; Ji, R. S.; Pathak, B.; Boodida, S., Mobin, S. K, *Structural and Electrochemical Aspects of Tris(Ferrocenyl/Phenylethynyl) Phosphine Ligated Chalcogen Bridged Iron Carbonyl Clusters.*, RSC Adv., Vol No.3, pp.26025-26034, 2013
- Koppula, A. J.; Bachu, R. K.; Boodida, S.; Syeda, A. B.; Patwari, M. K.; Nallani, S, *Study of Densities and Ultra Sound Velocities of the Binary Systems of ?Butyrolactone with Alkyl Nitriles at Temperatures (303.15 to 313.15 K)*, ISST J. Appl. Chem., Vol No.3, pp.33-38, 2012
- Koppula, A. J.; Patwari, M. K.; Boodida, S.; Nallani, S, *A Study on Densities and Ultrasound Velocities in the (?Butyrolactone + Aliphatic Ester) System at Temperatures (303.15 To 313.15) K*, Int. J. Eng. Res. Tech. , Vol No.1, Issue No.5, pp.1-10, 2012
- S. Basak, S.; Hui, P.; Boodida, S.; Chandrasekar, R., *Micropatterning of Metallopolymers: Syntheses of Back-to-Back Coupled Octylated 2, 6 Bis(pyrazolyl)pyridine Ligands and Their Solution Processable Coordination Polymers*, J. Org. Chem. , Vol No.77, pp.3620-3626, 2012
- Mathur, P.; Ji, R. S.; Boodida, S.; Mobin, S. K., *Photochemical Reactions of 1-Ferrocenyl-4-Phenyl-1,3-Butadiyne with Fe(CO)<sub>5</sub>, and CO*, J. Organomet. Chem. , Vol No.695, pp.1986-1992, 2010
- Syeda, A. B.; Koppula, A. J.; Boodida, S.; Nallani, S, *Excess Molar Volumes and Sound Speeds in (Phenylacetoneitrile + 1, 2?Dichloroethane), (Phenylacetoneitrile + 1, 1, 2?Trichloroethane), (Phenylacetoneitrile + 1,1,2,2?Tetrachloroethane), (Phenylacetoneitrile + Trichloroethene), and (Phenylacetoneitrile + Tetrachloroethene) at Temperatures of (303.15, 308.15, and 313.15) K*, J. Chem. Eng. Data , Vol No.55, pp.1405-1410, 2010
- Syeda, A. B.; Bachu, R. K. Koppula, A. J.; Boodida, S.; Nallani, S., *Volumetric and Transport Properties of Binary Liquid Mixtures of Phenylacetoneitrile with Aliphatic Esters at Temperatures of (303.15 to 313.15) K*, J. Chem. Eng. Data, Vol No.55, pp.55-1067, 2010
- Mathur, P.; Boodida, S.; Ji, R. S.; Mobin, S. K, *Fe(CO)<sub>5</sub> Promoted C?S Bond Activation and Formation of an Unusual C<sub>2</sub>S<sub>3</sub>?Ligand in [Fe<sub>2</sub>(CO)<sub>6</sub>]<sub>2</sub>[C<sub>2</sub>S<sub>3</sub>]*, J. Organomet. Chem. , Vol No.694, pp.3043-3045, 2009
- Patwari, M. K.; Bachu, R. K.; Boodida, S.; Kanthala, S. K.; Nallani, S, *Densities and Speeds of Sound for Binary Liquid Mixtures of Thiolane?1,1?dioxide with Pentan?2?one, Penta?3?one, 4?Methyl? petan?2?one at T=(303.15 or 308.15 or 313.15) K.*, J. Chem. Eng. Data , Vol No. 54, pp.1947-1950, 2009
- Patwari, M. K.; Bachu, R. K.; Boodida, S.; Nallani, S, *Densities, Viscosities and Speeds of Sound for Binary Liquid Mixtures of Sulfolane with Ethyl Acetate, n?Propyl Acetate and n?Butyl Acetate at 303.15, 308.15 and 313.15 K*, J. Chem. Eng. Data , Vol No.54, pp.1069-1072, 2009
- Boodida, S.; Bachu, R. K.; Patwari, M. K.; Nallani, S, *Volumetric and Transport Properties of Binary Liquid Mixtures of N?Methylacetamide with Lactones at Temperatures (303.15 to 318.15) K*, J. Chem. Thermodyn. , Vol No.44, pp.1422-1427, 2008
- Bachu, R. K.; Patwari, M. K.; Boodida, S.; Nallani, S, *Volumetric and Transport Properties Binary Liquid Mixtures of Aliphatic Ketones with Phenylacetoneitrile at T=308.15 K*, J. Chem. Eng. Data , Vol No.53, pp.2403-2407, 2008
- Boodida, S.; Bachu, R. K.; Tangeda, S. J.; Nallani, S, *Densities, and Viscosities of Binary Liquid Mixtures of N?Methylacetamide with some Chloroethanes and Chloroethenes at T=308.15 K*, J. Chem. Thermodyn. , Vol No.39, pp.16-21, Elsevier Publishers, 2007
- 32 Nallani, S.; Boodida, S.; Tangeda, S. J, *Density, and Speed of Sound of Binary Mixtures of N-Methylacetamide with Ethyl Acetate, Ethyl Chloroacetate, and Ethyl Cyanoacetate in the Temperature Interval (303.15 to 318.15) K*, J. Chem. Eng. Data , Vol No.52, pp.405-409, American Chemical Society, 2007
- 33 Tangeda, S. J.; Boodida, S.; Nallani, S, *Ultrasonic Studies of Binary Mixtures of some Aromatic Ketones with Acetonitrile at T=308.15 K*, J. Chem. Thermodyn. , Vol No.38, pp.1438-1442, Elsevier Publishers, 2006

## National Journals

- Patwari, M. K.; Bachu, R. K.; Boodida, S.; Nallani, S, *Densities, Viscosities and Speeds of Sound of Binary Liquid Mixtures of Sulfolane with Aliphatic Amines at T=308.15 K*, Indian J. Pure & Appl. Phys. , Vol No.47, pp.576-581, 2009
- Patwari, M. K.; Bachu, R. K.; Boodida, S., Nallani, S, *Thermodynamic and Transport Properties of Binary Liquid Mixtures of Sulfolane with Some Lactones at 308.15 K*, Indian J. Chem. , Vol No.48A, pp.526-530, 2009
- Bachu, R. K.; Boodida, S.; Syeda, A. B.; Koppula, A. J.; Tangeda, S. J.; Nallani, S, *Volumetric and Transport Properties of Binary Liquid Mixtures of Aromatic Hydrocarbons with N?Methylacetamide at 308.15 K*, Indian J. Pure & Appl. Phys., Vol No. 47, pp.511-516, 2009
- Boodida, S.; Bachu, R. K.; Tangeda, S. J.; Nallani, S, *Excess Molar Volumes and Viscosity Deviations of Binary Liquid Mixtures of N?Methylacetamide with Ethyl Acetate, Ethyl Chloroacetate, and Ethyl Cyanoacetate*, Indian J. Chem. , Vol No.47A, pp.66-70, 2008
- Bachu, R. K.; Patwari, M. K.; Boodida, S.; Tanged, S. J.; Nallani, S, *Densities, Viscosities and Speeds of Sound of Binary Mixtures of Phenylacetoneitrile with some Aliphatic alcohols at 308.15 K*, Indian J. Chem. , Vol No.47A, pp.1026-1031, 2008
- Bachu, R. K.; Patwari, M. K.; Syeda, A. B.; Koppula, A. J.; Boodida, S.; Tangeda, S. J.; Nallani, S, *Thermodynamic and Transport Properties of Binary Liquid Mixtures of Phenylacetoneitrile with some Aliphatic Amines at 308.15 K*, Indian J. Chem. , Vol No.47A, pp.1809-1813, 2008
- Boodida, S.; Tangeda, S. J.; Nallani, S, *Acoustic Studies of Binary Mixtures of N?methylacetamide with some Chloroethanes and Chloroethenes at 308.15 K*, Indian J. Pure & Appl. Phys., Vol No.44, pp.587-591, 2006
- Boodida, S.; Tangeda, S. J.; Nallani, S, *Excess Molar Volumes of Binary Liquid Systems of N?Methylacetamide with Aliphatic Esters at T=303.15 K*. Proc. A. P. Akademi of Sci., Vol No.10, Issue No.(3&4) , pp.323-326, 2006

## - Teaching

- Reagents and formation of C-C & C=C Bonds in M.Sc. II semester (I year)
- Organic Chemistry-I in M.Sc. I Semester (I year)
- Engineering Chemistry in All II semester (I year)
- Engineering Chemistry in All I semester (I year)

## - Administrative Positions Held

- Faculty In-charge for Dept. of Physical Education, JNTUH College of Engineering Jagtial, 05 Jun 2019 - 20 Jan 2022
- Hostel Manager, JNTUH College of Engineering Jagtial, 01 Dec 2018 - 20 Jan 2022
- Head, Department of Chemistry, JNTUH University College of Engineering Jagtial, 22 May 2019 - 20 Jan 2022
- Member, District Level Experts Appraisal Committee, Jagtial District, Government of Telangana, 01 Jun 2016 - 07 Jun 2019
- Coordinator, UGC 12B ,, JNTUH College of Engineering Jagtial, 01 Jun 2016 - 01 Jun 2018
- Officer In-charge for Examinations, JNTUH College of Engineering Jagtial, 01 Jun 2017 - 01 Jun 2018
- Head, Department of Chemistry, JNTUH College of Engineering Jagtial, 05 Nov 2014 - 01 Dec 2016
- NSS Programme Officer, JNTUH College of Engineering Jagtial, 16 Jan 2013 - 24 Dec 2015

## Contact :

**Dr. Boodida Sathyanarayana**

Chemistry

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