



Dr. Boodida Sathyanarayana

M. Sc., Ph. D.

Assistant Professor (Sr. Scale) - (On deputation at JNTUH-Hyderabad)

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

Chemistry

Areas of Interest:

Synthetic Chemistry, $\hat{\wedge}$
Physico chemical properties of Ionic liquids
Analytical Chemistry

$\hat{\wedge}$ **Dr. Sathyanarayana 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 this institution in July, 2010 as Assistant Professor in the Department of Chemistry. He has put up 09 years of teaching experience and 15 years of research experience.

Apart from his normal duties as Head of the department, he also discharging the responsibilities of Hostel affairs as **Hostel Manager** and **Faculty In-charge of Department of Physical Education**. In the past, he also held administrative positions of **NSS Programme Officer, Officer In-charge for Academic Section (OAS)**. $\hat{\wedge}$

As **Head of the Department** he organized a Two day National conference on Recent Advances in Chemical and Pharmaceutical Sciences (NACRACAPS-2015).

As **NSS Programme Officer**, he was organized **three** special camps in Pudur, Nachupally and Dablu Thimmayapally villages along with regular camping activities such as Haritha Haram, Blood Donation Camps, Health camps, Awareness programmes on Swacchh Bharath, Right to Information Act (RTI), Right to Vote, etc. $\hat{\wedge}$

RESEARCH:

In addition to his active contribution towards administration, he also engaged in research activities. His research is devoted to the development of novel organic compounds which are biologically active. In particular, development of $\hat{\wedge}$ straight forward synthetic methodologies for $\hat{\wedge}$ antiproliferative drugs using molecular hybridisation approach

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- \blacktriangleright Educational & Professional

- \blacktriangleright Academic Qualifications

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

- \blacktriangleright

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

\blacktriangleright Professional Experience

- \blacktriangleright Industrial Experience

- \blacktriangleright Dr. D. S. Kothari Fellow, University of Hyderabad, Hyderabad (2009 - 2010)

- \blacktriangleright Research Associate (CSIR), IIT Bombay, Mumbai (2007 - 2009)

- \blacktriangleright At JNTUH

- \blacktriangleright Assistant Professor (Senior Scale), JNTUH CEJ, JNTUH (2014 - Till Date)

- \blacktriangleright Assistant Professor, JNTUH CEJ, JNTUH (2010 - 2014)

- \blacktriangleright Books

- \blacktriangleright Dr. B. Sathyanarayana, 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

- \blacktriangleright Publications

- > 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., ISBN No.1099-0801, Vol No.35, Issue No.11, Wiley Publisher, June, 2021
- > Koduri RG, Pagadala R., Boodida S*, Varala R., *Ultrasound Promoted Synthesis of 2-Amino-4-H-Pyranoquinolines Using Sulphated Tin Oxide as a Catalyst*, Polycyclic Aromatic Compounds, ISBN No.1040-6638, Vol No. Online article, Taylor & Francis, July, 2021
- > Koduri RG, Pagadala R., Varala R., Boodida S*. *An effective process for the synthesis of dihydropyridines via SO₄²⁻/SnO₂ catalyzed Hantzsch reaction.*, J. Chin. Chem. Soc., ISBN No.2192-6549, Vol No.68, Issue No.2, pp.333-337, Wiley Publisher, September, 2020
- > 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., ISBN No.1099-0801, Vol No.35, Issue No.4, Wiley Publisher, November, 2020
- > Koduri RG, Pagadala R., Boodida, S*, Varala R., *SO₄²⁻/SnO₂ catalyzed cyclo-condensation for the synthesis of fully functionalized pyridines.*, J Heterocyclic Chem., ISBN No.0022-152X, Vol No.57, Issue No.2, pp.923-928, Wiley Publisher, November, 2019
- > 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., ISBN No. 2278-0181, Vol No.6, Issue No.(7), pp.586-590, 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, 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
- > 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
- > 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
- > Gudla, P, Boodida, S*, *A Facile Synthesis of 5-(2-Bromo-4-Methylthiazol-5-yl)-3-(Methylthio)-1H-Pyrazole*, J. Appl. Chem., ISBN No.1, Vol No.4, pp.318-322, 2015
- > 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
- > Koppula, A. J.; Nallani, S; Boodida, S, *Ultrasonic and Volumetric Investigations of ?-Butyrolactone with Aliphatic Alcohols*, Int. J. Eng. Res. Appl., ISBN No.4, 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
- > 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
- > 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, pp.1-10, 2012
- > Mathur, P.; Ji, R. S.; Boodida, S.; Mobin, S. K, *Photochemical Reactions of 1-Ferrocenyl-4-Phenyl-1,3-Butadiyne with Fe(CO)₅ 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.1067-1071, 2010
- > Mathur, P.; Boodida, S.; Ji, R. S.; Mobin, S. K, *Fe(CO)₅ Promoted C?S Bond Activation and Formation of an Unusual C₂S₃ Ligand in [Fe₂(CO)₆]²⁺[C₂S₃]²⁻*, 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-pentan-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.40, 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, 2007
- > 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, 2007
- > 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, 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. Sec-A, 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. Sec-A, 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. Sec-A, 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. Sec-A, 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., ISBN No., Vol No.10, Issue No.3&4, pp.323-326, 2006

International Conference

- P. Gudla, S. R Maddula, S. Boodida, *Facile Synthesis and characterization of Process Related Potential Impurities of Salmeterol Xinafoate: A Long-Acting β_2 -Adrenergic Agonist (LABA)*, International Conference on Applied Sciences & Advances in Sustainable Development 2021, ISBN No.978-93-90146-30-7, 24-25, November, 2021
- Vijendhar, K.; Boodida, S., *Synthesis of Corey Lactone Diol: An Alternative, Improved Process for Cyclopentadiene*, International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (TSCST-API 2015), pp.124-126, December, 2015
- Alegete, P.; Kancherla, P.; Boodida, S., *Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS) Method for Estimation of Bortezomib in Sodium Heparin Human Plasma*, International Conference on Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (TSCST-API 2015), pp.275-280, December, 2015

National Conference

- Koppula, A. J.; Boodida, S, *Binary Liquid Systems: Viscosity Study of Butyrolactone with Aliphatic Alcohols*, National Conference on Recent Trends in Science and Technology (NCRTST-2015), pp.440-442, February, 2015

-> Events Participated/Organized

- Organized

-> Organized a Training on Short Term Course on Challenges in Discovery of Antiviral Agents and Vaccines, UGC-HRDC, JNTUH, 08-06-2020 to 13-06-2020

-> Organized a Training on Challenges in Discovery of Antiviral Agents and Vaccines, UGC-HRDC, JNTUH, 08-06-2020 to 13-06-2020

- Presented

-> Presented a paper in *National Conference on Advances in Chemistry and Chemical Engineering (NCACACE-2021)*, Department of Chemistry, JNTUHCEH, 28-01-2021 to 29-01-2021

-> Presented a paper in *Trend Setting Innovations in Chemical Sciences & Technology- Nature Inspired Chemistry & Engineering (TSCST-NICE 2016)*, CCST, IST, JNTUH, 04-10-2016 to 06-10-2016

-> Presented a paper in *International Congress on Recent Advances in Chemistry and Chemical Engineering (ICRACACE-16)*, Department of Chemistry, JNTUHCEH, 11-07-2016 to 13-07-2016

-> Presented a paper in *International Conference on "Trend Setting Innovations in Chemical Sciences & Technology-Applications in Pharma Industry (TSCST-API 2015)"*, Institute of Science & Technology, JNTUH, Hyderabad, 16-12-2015 to 18-12-2015

-> Presented a paper in *National Conference on Recent Trends in Science & Technology*, JNTUHCEJ, 25-02-2015 to 26-02-2015

-> Presented a paper in *International Conference on "Nano Science & Engineering Applications?2014 (ICONSEA?2014)"*, Center for Nano Science and Technology (CNT), Institute of Science & Technology, JNTUH Hyderabad, 26-06-2014 to 28-06-2014

-> Presented a paper in *International Conference on "New Dimensions in Chemistry and Chemical Technologies-Applications in Pharma Industry (NDCT-2014)*, Center for Chemical Sciences and Technology (CCST), Institute of Science & Technology, JNTUH Hyderabad, 23-06-2014 to 25-06-2014

-> Presented a paper in *International Conference on "Nano, Bio & Material Sciences (ICONBMS-2014)"*, Department of Physics, Nizam College, Osmania University, Hyderabad, 08-01-2014 to 10-01-2014

-> Presented a paper in *National Conference on "Frontiers of Chemical Research-2013"*, Department of Chemistry, JNT University, Hyderabad, 25-10-2013 to 26-10-2013

-> Presented a paper in *7th National Conference on "Thermodynamics of Chemical, Biological and Environmental Processes"*, Sri Venkateswara University, Tirupati, 10-12-2012 to 12-12-2012

-> Presented a paper in *International Symposium on "Inorganic Ring Systems"*, Indian Institute of Technology Bombay, Mumbai, 16-08-2009 to 21-08-2009

-> Presented a paper in *National Seminar on "Novel polymers, Nanotechnology and Green Chemistry"*, Kakatiya University, Warangal, 22-02-2008 to 23-02-2008

-> Presented a paper in *National Seminar on "New Frontiers in Chemistry"*, Kakatiya University, Warangal, 23-02-2007 to 24-02-2007

-> Presented a paper in *National Seminar on "Role of Chemistry in Emerging Areas of Biology and Industries"*, Sri Krishnadevaraya University, Anantapur, 24-03-2006 to 25-03-2006

- Resource Person

-> Resource Person in a FDP on *Innovative Practices in Chemical Sciences*, A V College of Arts, Science & Commerce, Hyd, 23-09-2021 to 27-09-2021

-> Resource Person in a FDP on *Recent Trends in Advanced Materials Science and Engineering Technology*, Chaitanya Bharathi Institute of Technology(A), Hyderabad, 08-03-2021 to 12-03-2021

-> Resource Person in a Seminar on *National Webinar on Electrochemistry Basics: Principles, Methods & Applications*, Vaageswari College of Engineering, Karimnagar, 28-06-2020

- Participated

-> Participated in a FDP on *Applied Chemistry to Design Smart Materials for Device Applications*, Geetanjali College of Engineering and Technology, Hyderabad, 20-09-2021 to 24-01-2021

-> Participated in a Seminar on *Frontiers in Organometallic and Catalysis (FOMC-2021)*, Department of Chemistry, MNIT Jaipur, 20-01-2021 to 22-01-2021

-> Participated in a Seminar on *Challenges in Drug Discovery-A Global need*, Dept. of Chemistry, Satavahana University, Karimnagar, 25-08-2020

-> Participated in a FDP on *Perspectives of Online Teaching and Learning*, Gokaraju Rangaraju Inst. of Eng. and Technology, Hyd., 08-06-2020 to 13-06-2020

-> Participated in a Workshop on *Universal Human Values*, AICTE, New Delhi, 18-04-2020 to 22-04-2020

-> Participated in a Workshop on *Energy Conversion and Storage*, IIT Hyderabad, 02-12-2019 to 07-12-2019

-> Participated in a Training on *Short term Course on Research Methodology*, UGC-HRDC, Osmania University, Hyderabad, 26-08-2019 to 31-08-2019

-> Participated in a Refresher Course on *Emerging Trends and Novel Research Approaches in Pharmaceutical Sciences*, UGC-HRDC, JNTUH, 17-09-2018 to 10-10-2018

-> Participated in a Orientation Course on *Training for NSS Programme Officer*, MGU, Nalgonda, 27-04-2016 to 03-05-2016

-> Participated in a Workshop on *Technological Advances in Chemical Sciences*, CCST, IST, JNTUH, 14-09-2015 to 15-09-2015

-> Participated in a Workshop on *Emerging Trends in Chemical Sciences & Technology*, CCST, IST, JNTUH, 09-01-2014

-> Participated in a Orientation Course on *28th Orientation Course*, UGC-HRDC, JNTUH, 21-05-2012 to 16-06-2012

-> Participated in a Refresher Course on *Refresher Course in Chemistry*, University of Hyderabad, Hyderabad, 13-07-2011 to 02-08-2011

-> Participated in a Workshop on *Effective Teaching and Learning Methodologies*, JNTUHCEJ, 11-05-2011 to 12-05-2011

-> Participated in a Workshop on *Perspectives in Teaching -A Multi Dimensional Approach to Enhance Pedagogical Skills in Professiona Teachers*, JNTUHCEJ, 01-04-2011 to 02-04-2011

-> Participated in a Workshop on *Digital Learning Technologies*, JNTUH, 04-03-2011 to 05-03-2011

-> Participated in a Workshop on *e-learning and effective teaching*, UGC-ASC, JNTUH, 24-09-2010 to 25-09-2010

- Teaching

-> B. Tech. Engineering Chemistry in All I (I year)

-> **Administrative Positions Held**

- > Head, Department of Chemistry, JNTUH College of Engineering Jagtial, 06 May 2019 - Present
- > Hostel Manager, JNTUH College of Engineering Jagtial, 21 Dec 2018 - Present
- > Faculty In-charge for Dept. of Physical Education, JNTUH College of Engineering Jagtial, 12 Sep 2019 - Present
- > NSS Programme Officer, JNTUH College of Engineering Jagtial, 13 Mar 2013 - 30 Nov 2015
- > Member, District Level Experts Appraisal Committee, Jagtial District, Government of Telangana, 29 Nov 2016 - 29 Nov 2019
- > Officer In-charge for Examinations, JNTUH College of Engineering, 27 Apr 2017 - 20 Dec 2018
- > Coordinator, UGC 12B, JNTUH College of Engineering Jagtial, 27 Oct 2016 - 19 Dec 2018
- > Head, Department of Chemistry, JNTUH College of Engineering Jagtial, 10 Nov 2014 - 21 Dec 2016

Contact :

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Chemistry

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