

CV
RAMESH KANDANELLI

Contact information:

Mobile: 8897146903

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Home Town: Tandur, Vikarabad Dist, Telangana

Education

August 2007- April 2013 PhD, Department of Organic Chemistry, Indian Institute of Science, Bangalore, India

Thesis on “**A Study of Supramolecular Gels and Self Assembly of Novel Bile Acid Conjugates**”,

2005-2007 M.Sc (Chemistry), Sri Sathya Sai University, Puttaparthi, Andhra Pradesh, India.

2002-2005 B.Sc(Hons) Chemistry Sri Sathya Sai University, Puttaparthi, Andhra Pradesh, India.

Research experience

2007-2013 : PhD in Laboratory of Organic synthesis and Analytical Synthesis, Department of Organic Chemistry, Indian Institute of Science, Bangalore, India.

Title : A Study of Supramolecular Gels and Self Assembly of Novel Bile Acid Conjugates

2006-07: M.Sc project at Department of Chemistry, Sri Sathya Sai University.

Title : Phenolic Coupling in Water: A Green Chemistry Approach

March 2014-Oct 2015 : Postdoctoral Researcher at University of Würzburg

Title : Synthesis and Study of functional Organic dyes based on OPEs.

Feb 2016-Feb 2018: Research Officer, Hindustan Petroleum Green R&D Center, Bengaluru

Feb 2018-Present: Senior Research Officer, Hindustan Petroleum Green R&D Center, Bengaluru

Training experience: Research training for M.S students, project trainees, undergraduate and graduate students.

Area of Interest: Petroleum Chemistry and Analysis, Industrial Chemistry, Organic Synthesis and Biochemical Studies.

Publications

1.“Strategies to create hierarchical self-assembled structures via cooperative non-covalent interactions” Christina Rest, **Ramesh Kandaneli** and Gustavo Fernández; *Chem. Soc. Rev.* 2015, DOI: 10.1039/c4cs00497c (online).

2.“Concentration dependent Rhombitrihexagonal Tiling Patterns at the Liquid Solid Interface” Vladimir Stepanenko, **Ramesh Kandaneli**, Shinobu Uemura, Frank Würthner and Gustavo Fernández; *Chem. Sci.* 2015, DOI: 10.1039/c5sc00811e (Just Accepted).

3. "Tb(III) sensitization in a deoxycholate organogel matrix, selective quenching of the luminescence by an aromatic nitro derivative" **Ramesh Kandanelli**, Anindya Sarkar and Uday Maitra; *Dalton Trans.* 2013, 42, 15381.
4. "Charge-transfer Interaction Mediated Organogels from Bile acid Appended Anthracenes: Rheological and Microscopic studies"; **Ramesh Kandanelli** and Uday Maitra; *Photochem. Photobiol. Sci.* 2012, 11, 1724.
5. "Functional molecular gels – a brief review"; **Ramesh Kandanelli**, Sandip Bhowmik and Uday Maitra; *J. Indian Chemical Society* 2011, 88, 1903.
6. "Self-organization of multiple components in a steroidal hydrogel matrix: design, construction and studies on novel tunable luminescent gels and xerogels"; Supratim Banerjee, **Ramesh Kandanelli**, Sandip Bhowmik and Uday Maitra; *Soft matter* 2011, 7, 8207.
7. "Supramolecular Chirality in Organogels: A detailed spectroscopic, morphological and rheological investigation of gels (and xerogels) derived from Alkyl Pyrenyl urethanes"; Rajat Kumar Das, **Ramesh Kandanelli**, Kunal Bose, Juha Linnato and Uday Maitra; *Langmuir* 2010, 26, 16141.
8. 'Cost effective and practically viable oil spillage mitigation: Comprehensive study with biochar' **Ramesh Kandanelli**, Lavanya Meesala, Jatin Kumar, Chinthalapati Siva Kesava Raju, V.C. Rao Peddy, Sriganesh Gandham, Pramod Kumar
9. 'A novel ternary combination of deep eutectic solvent-alcohol (DES-OL) system for synergistic and efficient delignification of biomass'; **Ramesh Kandanelli**, Chiranjeevi Thulluri, Ramkumar Mangala, Peddy V.C. Rao, Sriganesh Gandham, Harshad R. Velankar

Patents:

1. 'Simultaneous process for production of high value de-aromatized kerosene and BTX from refinery hydrocarbons' Filed in **2020**
2. 'Ionic & Non-Ionic Des Based Systems For Selective Delignification Of Biomass' Filed in **2020**
3. 'Dewatering composition and implementations there of' applied for filing 2020

Manuscripts under preparation

1. "Anion dependent structural, mechanical and morphological features of Eu(III)/Tb(III)-cholate gels" **Ramesh Kandanelli**, Raju Laishram and Uday Maitra.
2. "Design, synthesis and property study of Bile acid 'click' conjugates of Perylene and Naphthalene diimides" **Ramesh Kandanelli**, Sathyanarayana TBN and Uday Maitra.

Awards and Fellowships

- 2009: Senior Research Fellowship (SRF), Council of Scientific and Industrial Research (CSIR), Government of India.
- 2007: Junior Research Fellowship (JRF), Council of Scientific and Industrial Research (CSIR), Government of India.
- 2007: Ranked 38th (all India) in Graduate Aptitude test examination (GATE) examination with 99.2 percentile.

Posters and Presentations

1. Poster presented on “*First report of Tb³⁺ sensitization in an organogel matrix*” at **International Conference of Young Chemists** at Amman, Jordan 8-10th April 2012.
2. Oral presentation at **7th Junior National Organic Symposium** Trust on “*Self-organization of Multiple Components in a Steroidal Hydrogel Matrix: Design, Construction and Studies on Novel Luminescent Gels and Xerogels*” at IISER Mohali, Chandigarh, India, 15-18th December 2011.
3. Poster presented at **Chemical Research Society of India** North Zone meeting, 2011 at University of Jammu, Jammu September 22-24, 2011.
4. Poster presented on “*Study of Charge-transfer gels formed from Novel Bile Acid derivatives and TNF*” at **13th Chemical Research Society of India** and **5th RSC** symposium in chemistry held at NISER, Bhubaneswar in February 04-06, 2011.

Technical Skills

Perkin-Elmer Lambda 35 UV-Visible and LS 50B Luminescence spectrophotometers
Cary Varian Eclipse spectrofluorimeter; JASCO J-815 CD spectropolarimeter
Dynamic Light Scattering spectrophotometer; TA Instruments AR-1000 Rheometer
Scanning Electron Microscopy (SEM) and Optical Microscopy, GPC, DSC.
Petroleum and Applied Chemistry.

Biochemical Techniques

Theoretical knowledge in biochemistry and immunology was obtained during masters study before shifting to Chemistry of Soft Materials. Though majority of my research has been in chemical synthesis I have also been involved with chemical biology oriented research. Analysis of the synthesized targets were tested for various biological properties. Basic skills, such as experience in protein purification, PCR, tissue culture have been acquired.

Other information

Sex : Male
Language skills : Fluent in written and spoken English
Mother Tongue: Telugu

Advantages

1. **Educated at A++ NAAC University**
2. **All India Gate rank of 38 in Chemistry**
3. **Offered M. Techs in IIT Bombay and IIT Kanpur**
4. **PhD from the best institute in the country**