

CV

Dr. Ramesh Kandaneli

Contact information:

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Place: Bangalore, India



Work Experience

Feb 2018-Present: Assistant Manager, Analytical and Fuels Research, Hindustan Petroleum Green R&D Center, Bengaluru

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

Work Details:

- ✪ Team lead of petroleum analysts and chemists. Fuel testing as per ASTM standards in supporting refinery and petroleum R&D samples. Daily results compilation and report preparation. Improving and supporting pilot plant operations by quality analysis and help in trouble shooting plant evaluations.
- ✪ Chemical and additive development for refinery units and petroleum products there by improving margins. Reducing operational costs and enhance product quality.
- ✪ Lead scale up operations for additive preparations and blending

Area of Interest: Petroleum Chemistry and Analysis, Industrial Chemistry, Organic

Synthesis and Product development.

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.

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.

Publications

1. “Strategies to create hierarchical self-assembled structures via cooperative non-covalent interactions” Christina Rest, **Ramesh Kandanelli** 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 Kandanelli**, 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. Photobio. 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, *Marine Pollution Bulletin*, 128, 2018, 32-40
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, *Bioresource Technology* 265, 2018, 573-576
10. ‘Understanding the role of conjugation length on the self-assembly behaviour of oligophenyleneethynylenes’ Beatriz Matarranz, Goutam Ghosh, **Ramesh Kandanelli**, Angel Sampedro, Kalathil K. Kartha and Gustavo Fernández, *Chem. Commun.*, 2021,57, 4890-4893

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’ Filed in **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.
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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.

Other information

Sex : Male

Language skills : Fluent in written and spoken English, Hindi

Mother Tongue: Telugu

All India Gate rank of 38 in Chemistry

PhD from the best institute in the country