

Dr. Deep Mandal

Guest Lecturer at Muralidhar Girls' College

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**BIOGRAPHICAL DATA**

Date of Birth: 31st December, 1988
 Nationality: Indian
 Marital status: Married
 Category: General
 Religion: Hindu

ACADEMIC PROFILE

YEAR	NAME OF EXAM	BOARD/UNIVERSITY
2019	National Post Doctoral Fellow (DST-SERB)	Jadavpur University
2017	PhD	Institute-IACS, Kolkata (awarded by Jadavpur university)
2011	M.Sc (Chemistry)	Calcutta University
2009	B.Sc (chemistry hons.)	Calcutta University
2006	H.S.	WBCHSE
2004	M.P.	WBBSE

ACADEMIC ACHIEVEMENTS AND AWARDS

1. Awarded Doctoral Research Fellowship (**National Eligibility Test (NET-2011)**), in Chemical Sciences conducted by CSIR-UGC New Delhi, Govt. of India) held on June, 2011.
2. Qualified **GATE 2015** and **2016**.
3. Awarded **National Post Doctoral Fellowship (NPDF, DST-SERB) 2016**.

LIST OF PUBLICATIONS

- [1] **Deep Mandal*** and Suman Das, Dissipation of Pyrene-Based Phenylboronic Acid-Anchored Vesicular Self-Assemblies: A Motif for Neurotransmitter Recognition. *Chemistry Select*, **2019**, 4, 1220-1226.
- [2] **Deep Mandal** and Suman Das, Glucose-triggered dissolution of phenylboronic acid-functionalized cholesterol-based niosomal self-assembly for tuneable drug release. *New J. Chem.*, **2019**, 43, 7855-7865.
- [3] Nilanjan Chakraborty, Sutanwi Bhuiya, Arijit Chakraborty, **Deep Mandal**, Suman Das, Synthesis and photophysical investigation of 2-hydroxyquinoline-3-carbaldehyde: AIEE phenomenon, fluoride optical sensing and BSA interaction study. *Journal of Photochemistry & Photobiology A: Chemistry*, **2018**, 359, 53-63.
- [4] **Deep Mandal**, Pritam Choudhury, Deblina Sarkar and Prasanta Kumar Das: Dissipation of Self-assemblies by Fusion of Complementary Gels: An Elegant Strategy for Programmed Enzymatic Reaction. *Chem. Commun.* **2017**, 53, 7844-7847.
- [5] **Deep Mandal**, Soumik Dinda, Pritam Choudhury and Prasanta Kumar Das: Solvent Induced Morphological Evolution of Cholesterol Based Glucose Tailored Amphiphiles: Transformations from Vesicles to Nanoribbons. *Langmuir* **2016**, 38, 9780-9789
- [6] **Deep Mandal**, Subhra Kanti Mandal, Moumita Ghosh and Prasanta Kumar Das: Phenylboronic Acid Appended Pyrene Based Low Molecular Weight Injectable Hydrogel: Glucose Stimulated Insulin Release. *Chem. Eur. J.* **2015**, 21, 12042-12052. (considered as 'HOT' paper). Highlighted in ChemistryViews Magazine. Highlighted in ChemistryViews Magazine:

http://www.chemistryviews.org/details/ezone/8119491/Sweet_Gels_for_Diabetics.html

- [7] **Deep Mandal**, Tanmoy Kar and Prasanta Kumar Das: Pyrene Based Fluorescent Ambidextrous Gelator: Scaffold for Mechanically Robust SWNT-Gel Nanocomposite. *Chem. Eur. J.* **2014**, *20*, 1349-1358.
- [8] **Deep Mandal**, Moumita Ghosh, Subhabrata Maiti, Krishnendu Das and Prasanta Kumar Das: Water-in-oil Microemulsion Doped with Gold Nanoparticle Decorated Single Walled Carbon Nanotube: Scaffold for Enhancing Lipase Activity. *Colloids and Surfaces B: Biointerfaces* **2014**, *113*, 442-449.
- [9] Nilanjan Chakrabortya, Sutanwi Bhuiya, Arijit Chakraborty,* **Deep Mandal**, Suman Das: Synthesis and photophysical investigation of 2-hydroxyquinoline-3-carbaldehyde: AIEE phenomenon, fluoride optical sensing and BSA interaction study, *Journal of Photochemistry and Photobiology A: Chemistry* **2018**, *359*, 53-63.
- [10] Pritam Choudhury, **Deep Mandal**, Sayanti Brahmachari, and Prasanta Kumar Das: Hydrophobic End Modulated Amino Acid Based Neutral Hydrogelators: Structure Specific Inclusion of Carbon Nanomaterials *Chem. Eur. J.* **2016**, *22*, 5160-5172. (considered as 'HOT' paper)
- [11] Soumik Dinda, **Deep Mandal**, Saheli Sarkar and Prasanta Kumar Das: Self-Assembled Vesicle-Carbon Nanotube Conjugate Formation through Boronate-Diol Covalent Linkage. *Chem. Eur. J.* **2017**, *23*, 15194 - 15202.
- [12] Subhra Kanti Mandal, **Deep Mandal** and Prasanta Kumar Das: Synthesis of Low-Molecular Weight Fluorescent Ambidextrous Gelator: Development of Graphene and Graphene Oxide Included Gel-Nanocomposite. *ChemPlusChem* **2016**, *81*, 213-221.
- [13] Sounak Dutta, Tanmoy Kar, **Deep Mandal** and Prasanta Kumar Das: Structure and Properties of Cholesterol Based Hydrogelators with Varying Hydrophilic Terminals: Biocompatibility and Development of Antibacterial Soft Nanocomposites *Langmuir* **2013**, *29*, 316-327.
- [14] Krishnendu Das, Subhabrata Maiti, Moumita Ghosh, **Deep Mandal** and Prasanta Kumar Das: Graphene Oxide in CTAB Reverse Micelle: A Befitting Soft Nanocomposite for Improving Efficiency of Surface-Active Enzymes, *Journal of Colloid and Interface Science* **2013**, *395*, 111-118.
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