

Indian Journal of Chemistry

Sect. B: Organic Chemistry including Medicinal Chemistry

VOL. 57B

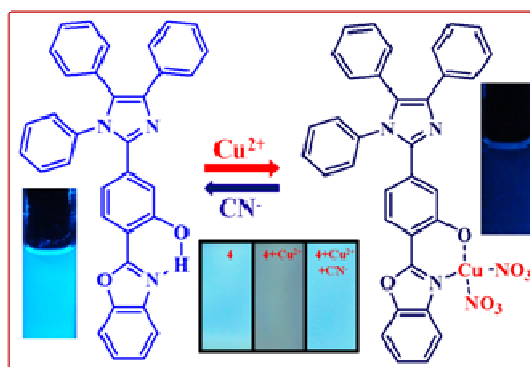
NUMBER 02

February 2018

CONTENTS

Papers

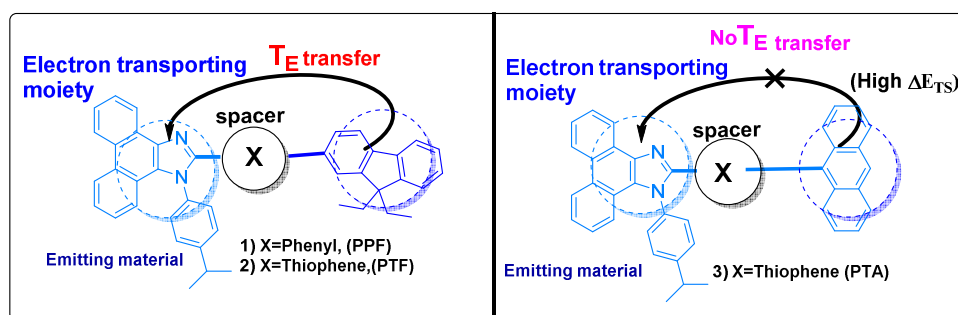
- 217 Imidazole and oxazole containing fluorescent dyad: Cu^{2+} induced fluorescence quenching and cyanide sensing "On-Off-On" via copper displacement approach



Arvind Misra* & Rashid Ali

Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi 221 005, India

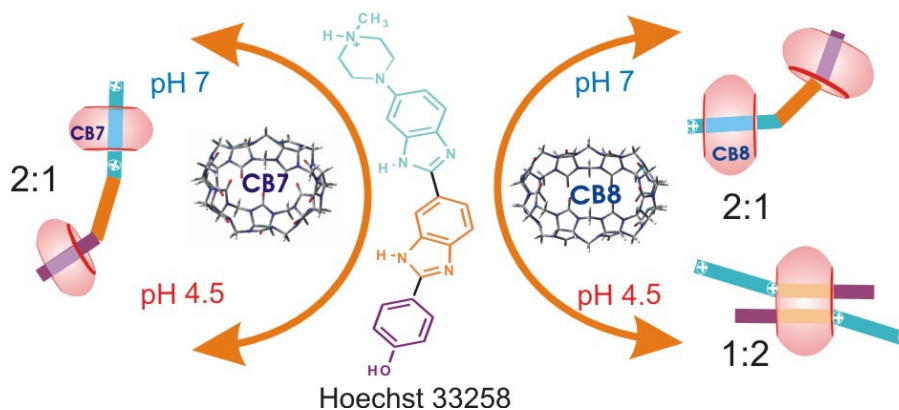
- 229 Delayed fluorescence based phenanthroimidazoles as OLED emitters having electron transporting properties



Peethani Nagaraju, Chakali Madhu, Maneesha Esther Mohanty & Vaidya Jayathirtha Rao*

Crop Protection Chemicals Division and AcSIR, CSIR-Indian Institute of Chemical Technology, Uppal Road, Tarnaka, Hyderabad 500 007, India

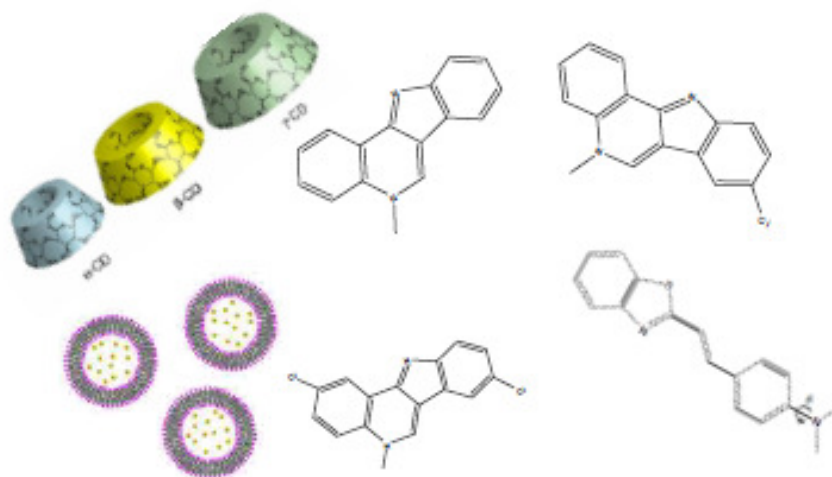
- 241 pH-Responsive supramolecular assemblies of Hoechst-33258 with cucurbiturils: Modulation in the photophysical properties** This review article provides an account on the pH-induced modulation of the photophysical properties of Hoechst-33258 with cucurbiturils.



Nilotpal Barooah, Achikanath C Bhasikuttan & Jyotirmayee Mohanty*

Radiation and Photochemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

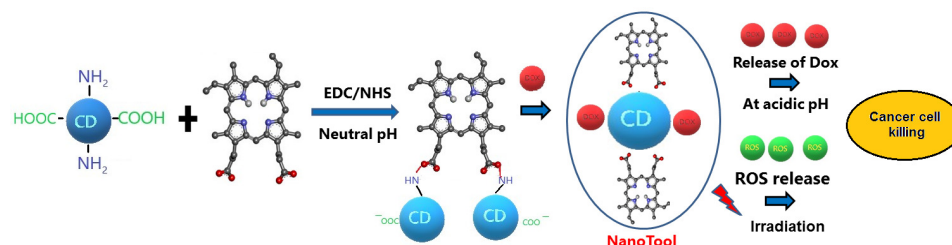
- 254 Photophysical modulations of biologically potent small molecules in biocompatible microheterogeneous environments created by cyclodextrins and lipid vesicles**



Pradipta Purkayastha

Department of Chemical Sciences, Indian Institute of Science Education and Research (IISER) Kolkata, Mohanpur 741 246, India

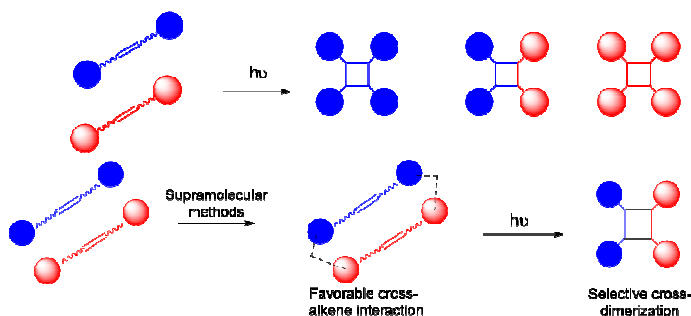
265 Carbon dots as a nanotool for integrated photo-dynamic therapy and chemotherapy



Sonam Kumari, Seema Singh & Prolay Das*

Department of Chemistry, Indian Institute of Technology Patna, Patna 801 103, India

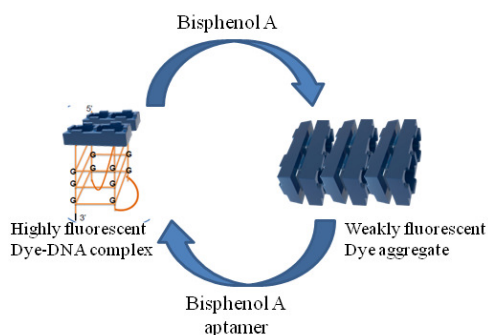
271 Supramolecular assistance of [2+2] photocycloaddition for cross-photodimerization



Mahesh Pattabiraman* & Vijayakumar Ramalingam

Department of Chemistry, University of Nebraska Kearney, NE-68849, USA

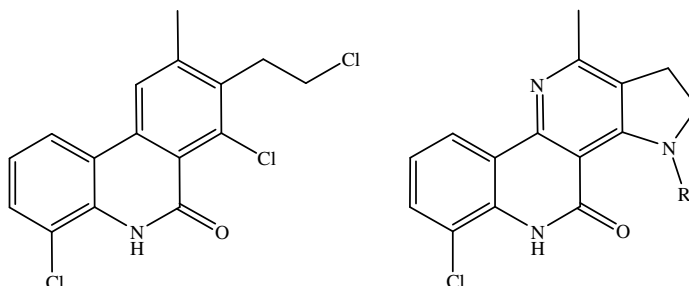
281 Dimeric carbocyanine dye and nucleic acid aptamer mediated detection of food borne toxin



Pallavi Chilka, Prathap Reddy Patlolla & Bhaskar Datta*

Department of Biological Engineering, Indian Institute of Technology, Palaj, Gandhinagar 382 355, India

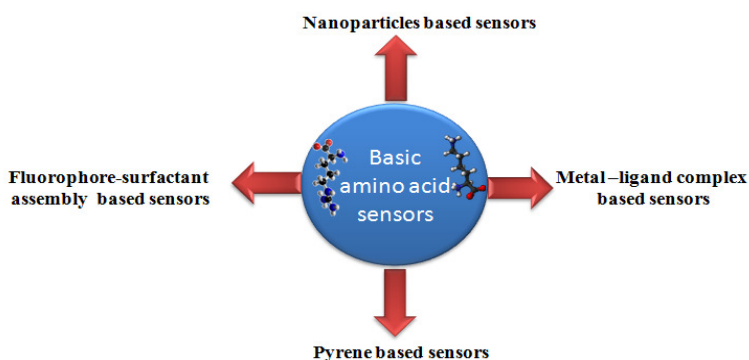
- 287 **Synthesis and photophysical properties of pyrrolo-[3,2-*c*][1,6]naphthyridin-11(10*H*)-one derivatives**



Raghunath B Toche* & Balasaheb P Pagar

Department of Chemistry, KRT Arts, BH Commerce and AM Science College,
Gangapur Road, Nashik 422 002, India

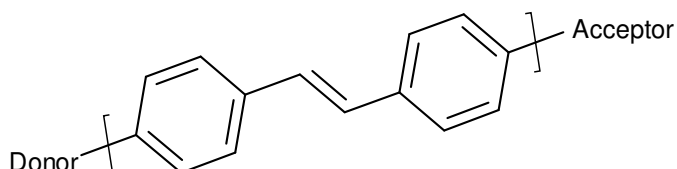
- 293 **Recent developments in designing optical sensors for detection of basic amino acids**



Aafrin M Pettiwala & Prabhat K Singh*

Radiation & Photochemistry Division, Bhabha Atomic Research Centre, Mumbai 400 085, India

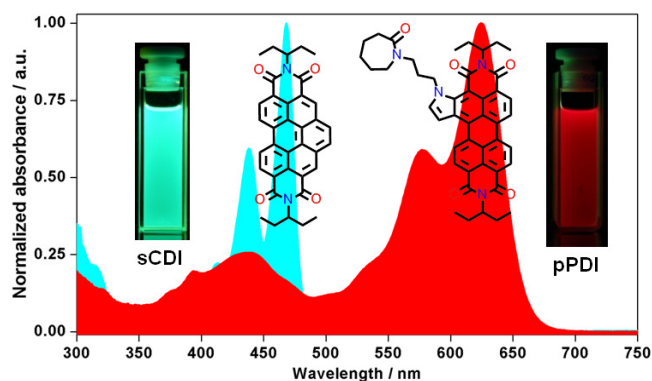
- 301 **Excited state and fluorescence probe properties of donor-acceptor substituted ethenes: A plausible photochromic material for organic electronics** Donor-acceptor conjugated molecules based on aryl, diphenyl, heterocyclic systems are the most suitable candidates for organic electronic applications.



Jagdeep Kumar, Naresh Kumar & Prasanta Kumar Hota*

Department of Chemistry, School of Sciences, Hemvati Nandan Bahuguna Garhwal University, Srinagar
Garhwal 246 176, India

- 308 Bay- and *ortho*- ring annulated perylenediimides:** The synthesis of semi-coronediimide (sCDI) and N-caprolactam pyrrolo-perylenediimide (pPDI) using 1,8-diazabicyclo[5,4,0]undec-7-ene (DBU) is reported. The molecules exhibit diverse photophysical properties. pPDI demonstrates panchromatic absorption with quenched fluorescence while sCDI displays blue-shifted absorption with high fluorescence quantum yield. The obtained sCDI has been structurally characterized



Ramprasad Regar, Adiki Raja Sekhar, Ruchika Mishra & Jeyaraman Sankar*

Department of Chemistry, Indian Institute of Science Education and Research, Bhopal 462 066, India

Authors for correspondence are indicated by (*)