

## Profile of Dr. Kumaresh Ghosh



1. Name: Dr. Kumaresh Ghosh
2. Designation: Professor
3. Faculty: Science
4. Department: Chemistry
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8. Web address:
9. Qualifications: M.Sc (IIT, Kharagpur). Ph.D (IIT, Kharagpur)
10. Area of Interest/Specialization: Organic Chemistry

### Teaching

- Reaction mechanism
- Reagent chemistry
- Synthetic chemistry
- Organometallic chemistry
- Supramolecular chemistry

### Research Interest

#### Molecular recognition and Supramolecular chemistry

- *Design and synthesis of chemosensors for cations, anions, neutral molecules.*
- *Supramolecular stimuli responsive gel*
- *Chiral recognition*

11. Experience: Teaching: Sixteen years; Research: Nineteen years
12. Awards and Honours:
  - a) Dr. Basudev Banerjee Memorial award, 2007 (Indian Chemical society)
  - b) Prof. D. K. Banerjee memorial Award, 2011 (Indian Institute of Science, Bangalore)
13. Editorial Board Member:

Austin Journal of Organic and Bioorganic Chemistry
14. International/National Collaboration/Consultancy:

*For theoretical work:* a). I. D. Petsalakis and G. Theodorakopoulos; Theoretical and Physical Chemistry Institute, The National Hellenic Research Foundation, 48 Vassileos Constantinou Avenue, Athens 11635, Greece.

b) Carol A. Parish; Gottwald Center for the Sciences, Department of Chemistry, University of Richmond, Richmond, Virginia 23173, United States

15. Best five Peer Reviewed Publications/Books: (for details; PDF)

i) Pyridinium-based tripodal chemosensor in visual sensing of AMP in water by indicator displacement assay (IDA), **Ghosh. K<sup>\*</sup>**; Sarfaraj, S. S.; Sarkar, A. R.; Samadder, A.; Khuda-Bukhsh, A. R.; Petsalakis, I. D.; Theodorakopoulos, G. *Org. Biomol. Chem.* **2013**, *11*, 5666.

ii) L-Valine derived benzimidazole based bis-urea in enantioselective fluorescence sensing of L-tartrate, **Ghosh, K.<sup>\*</sup>**; Sarkar, T. *Tetrahedron Lett.*, **2013**, *54*, 4568.

iii) Cholesterol appended pyridinium ureas: A case of gel making and breaking for selective visual readout of F<sup>-</sup>, **Ghosh. K<sup>\*</sup>**; Kar, D. *Org. Biomol. Chem.* **2012**, *10*, 8800.

iv) Pyridinium-based fluororeceptors as practical chemosensors for hydrogen pyrophosphate (HP<sub>2</sub>O<sub>7</sub><sup>3-</sup>) in semiaqueous and aqueous environments, **Ghosh. K<sup>\*</sup>**; Sarkar, A. R.; Samadder, A., Khuda-Bukhsh, A. R. *Org. Lett.* **2012**, *14*, 4314.

v) Pyridinium-based symmetrical diamides as chemosensors in visual sensing of citrate through indicator displacement assay (IDA) and gel formation, **Ghosh. K<sup>\*</sup>**; Sarkar A. R. *Org. Biomol. Chem.* **2011**, *9*, 6551.

16. Patents (if any): Nil