PERSONAL PROFILE

Name : **Dr. Nirmal Kumar Das**

Designation :Assistant Professor of Chemistry

Educational Qualification: M.Sc., Ph.D

E-mail : nirdas.org@gmail.com

nirmal_chem123@rediffmail.com

EDUCATIONAL QUALIFICATIONS:

Degree	Institution	Year	Division	Subjects	% Marks
Ph.D.	Bengal Engineering and Science University, Shibpur, West Bengal, India.	2012	Awarded	Chemistry	
M.Sc.	Bengal Engineering and Science University, Shibpur, West Bengal, India	2005	1st	Applied Chemistry	66.15
B.Sc.	Vidyasagar University, West Bengal, India	2003	2nd	Chemistry Physics Mathematics	58.15

ACADEMIC HONOURS AND AWARD:

- 2012-2013: Postdoctoral Research Fellowship, Republic of Korea
- 2007-2012: Senior Research Fellowship by University Grant Commission (UGC) New Delhi, India.
- 2005-2007: Junior Research Fellowship by University Grant Commission (UGC) New Delhi, India.
- Dec, 2004: Qualified NET with JRF

TEACHING EXPERIENCE:

❖ 05.02.2018 to till date working as Prof. of Chemistry, Arignar Anna Govt. Arts and Science College, Karaikal, Pondicherry-609 605.

- ❖ Working as lecturer in GOVT. PLOYTECHNIC COLLEGE, SILLI, JHARKHAND (Run and managed by Techno India Group) from 05/03/2014 to 02/06/2014 date.
- ❖ Working as Assistant Prof. of Chemistry in Supreme Knowledge Foundation Group of Institution (SKFGI) in Sir J. C. Bose College of Engineering from 04/06/2014 to 02.02.2018.

RESEARCH EXPERIENCE AND SKILLS:

- Above seven years research experience in Synthetic Organic Chemistry.
- Planning, organising and implementation of research projects.
- Experience in design and multistep organic synthesis (micro and macro scale).
- Can work well in collaborative environment.
- Supervision and training of junior colleagues.
- Excellent oral and written communication skills in English.

SEMINAR, CONFERENCE, WORKSHOP, FDP, ORIENTATION PROGRAMME

- Poster presented in International Symposium on Organic Chemistry (ISOC), 10-12 December 2009 at IACS.
- Participated in Faculty Development Workshop in SKFGI, 22-23 June, 2015
- Participated in Faculty Development Programme from 03. 08.2017 to 07.09.2017 conducted by IITB.
- Participated in One Day Orientation Programme at Tagore Govt. Arts and Science College on 19.07.2018
- Participated in one Day National Conference, 19-20 September, 2018 on RECENT ADVANCE IN NANOTECHNOLOGY (RAN) at NIT, KKL.

- Participated in one day Symposium on EMERGING TRENDS IN CHEMISTRY (ETC-2019), on 23.09.2019 at Thiru. Vi.Ka College, Thiruvarur. Tamilnadu.

LIST OF PUBLICATIONS:

1. A new rhodamine-coumarin Cu^{2+}–selective colorimetric and 'off–on' fluorescence probe for effective use in chemistry and bioimaging along with its bound X–ray crystal structure: ShyamaprosadGoswami*, Debabrata Sen, Avijit Kumar Das, **Nirmal Kumar Das**, KrishnenduAich, Hoong–Kun Fun, Ching KhengQuah, Anup Kumar Maity and ParthaSaha: *Sensors & Actuators: B. Chemical,***2013**, *183*, 518 (Impact Factor: 6.39).

2. Exploring contribution of intermolecular interactions in supramolecular layered assembly of naphthyridine co-crystals: Insights from Hirshfeld surface analysis of their crystalline states: Saikat Kumar Seth*, **Nirmal Kumar Das**, KrishnenduAich, Debabrata Sen, Hoong-Kun Fun and ShyamaprasadGoswami: *Journal of Molecular Structure,***2013**, *1048*, 157 (Impact Factor: 2.01).

3. A case study of solid state inhibition lock opening of pyridine N-oxide in dicarboxylic acid recognition: ShyamaprosadGoswami*, **Nirmal Kumar Das**, Debabrata Sen, Hoong-Kun Fun: *Supramolecular Chemistry*, **2012**, *4*, 264 (Impact Factor: 1.67).

4. A new rhodamine based colorimetric 'off–on' fluorescence sensor selective for Pd^{2+} along with the first bound X–ray crystal structure: ShyamaprosadGoswami*, Debabrata Sen, **Nirmal Kumar Das**, Hoong–Kun Fun and Ching KhengQuah: *Chemical Communication*, **2011**, *47*, 9101(Impact Factor: 6.16).

5. A highly sensitive and selective ratiometric fluorescent probed on conjugated donor–acceptor–donor constitution of 1,8-naphthyridine for Hg^{2+}: Ajit K. Mahapatra*, GiridhariHazra, **Nirmal Kumar Das**, PrithidipaSahoo, ShyamaprosadGoswami and H-K Fun: *Journal of Photochemistry and Photobiology A:Chemistry*, **2011**, *222*, 47(Impact Factor: 3.26).

6. Recognition of acids involved in Krebs cycle by 9-anthrylmethyl-di(6-acetylamino-2-picolyl)amine: a case of selective fluorescence enhancement for maleic acid: ShyamaprosadGoswami*, **Nirmal Kumar Das**, Debabrata

Sen, JiaHao Goh, Yeap Chin Sing and Hoong-Kun Fun: *New Journal of Chemistry*, **2011**, *35*, 2811(Impact Factor: 3.07).

7. A highly selective triphenylamine-based indolylmethane derivative as colorimetric and turn-off fluorimetric sensor toward Cu^{2+} detection by deprotonation of secondary amines: Ajit Kumar Mahapatra*, GiridhariHazra, **Nirmal Kumar Das** and ShyamaprosadGoswami: *Sensors and Actuators B: Chemical*, **2011**, *156*, 456(Impact Factor: 6.39).

8. A naphthyridine based macrocyclic "switching on" fluorescent receptor for cadmium: ShyamaprosadGoswami*, **Nirmal Kumar Das**, KrishnenduAich and Debabrata Sen: *Journal of Luminescence*, **2011**, *131*, 2185(Impact Factor: 2.73).

9. A new highly selective ratiometric and colorimetric fluorescence sensor for $Cu^{2+}$with a remarkable red shift in absorption and emission spectra based on internal charge transfer: ShyamaprosadGoswami*, Debabrata Sen and **Nirmal Kumar Das**: *Organic Letters*, **2010**, *12*, 856(Impact Factor: 6.49).

10. Highly selective colorimetric fluorescence sensor for Cu^{2+}: cation–induced 'switching on' of fluorescence due to excited state internal charge transfer in the red/near-infrared region of emission spectra: ShyamaprosadGoswami*, Debabrata Sen, **Nirmal Kumar Das** and GiridhariHazra: *Tetrahedron Letters*, **2010**, *51*, 5563 (Impact Factor: 2.38).

11. Metal ion based chiral fluorescence sensor selective for dihydrogen phosphate: ShyamaprosadGoswami*, Debabrata Sen and **Nirmal Kumar Das**: *Tetrahedron Letters*, **2010**, *51*, 6707 (Impact Factor: 2.38).

12. Ethylene spacer-linked *bis*–acetamidopyridine for dicarboxylic acid recognition and polymeric new wave–like anti–perpendicular arrangement of a host–guest in the solid state: ShyamaprosadGoswami*, **Nirmal Kumar Das**, Debabrata Sen and Hoong-Kun Fun: *Supramolecular Chemistry*, **2010**, *22*, 532 (Impact Factor: 1.67).

13. N–(6–{2–[6–(2,2–Dimethylpropanamido)–2–pyridyl]ethyl}–2-pyridyl)–2,2–dimethylpropan–amide: H-K Fun*, Wan-Sin. Loh,**Nirmal Kumar Das**, Debabrata Sen and ShyamaprosadGoswami. *ActaCrystallographica*: **2010**, *E66*, o1960 (Impact Factor: 0.34).

14. N–(6–Bromomethyl–2–pyridyl)–acetamide: Hoong-Kun Fun*, JiaHao Goh, **Nirmal Kumar Das**, Debabrata Sen and ShyamaprosadGoswami: *ActaCrystallographica*, **2010**, *E66*, o2500 (Impact Factor: 0.34).

15. Quinoxaline-2-carbonitrile: H-K Fun*, Ching KhengQuah, Annada. C. Maity, **Nirmal Kumar Das**and ShyamaprosadGoswami: *ActaCrystallographica*, **2010**, *E66*, o28 (Impact Factor: 0.34).

16. A Pd Catalyzed New Synthesis of N,N-Dimethyl-[1,8]-Naphthyridine-2-amines: Facile Incorporation of N,N-Dimethylamino Group From DMF in Aqueous Medium: ShyamaprosadGoswami* and **Nirmal Kumar Das**: *Journal of Heterocyclic Chemistry*, **2009**, *46*, 324(Impact Factor: 1.24).

17. 7–(2,2–Dimethylpropanamido)–2–methyl–1,8-naphthyridin–1–ium chloride monohydrate: Hoong-Kun Fun*, Reza Kia, **Nirmal Kumar Das**, Debabrata Sen and ShyamaprosadGoswami: *ActaCrystallographica*, **2009**, *E65*, o340 (Impact Factor: 0.34).

18. 2-(pyrene-1-yl)1,3-dithiane: Hoong-Kun Fun*, S. R.jabes, Annada C. Maity, **Nirmal K. Das,**S hyamaprosadGoswami: *Crystallographica*, **2009**, *E65*, o891(Impact Factor: 0.34).

19. 2,7-Dimethyl-1,8-naphthyridine: Hoong-Kun Fun*, Chin Sing Yeap, **Nirmal Kumar Das** and ShyamaprosadGoswami: *ActaCrystallographica*, **2009**, *E65*, o1747 (Impact Factor: 0.34).

20. Solid State Structural Study on Recognition of Aromatic Dicarboxylic acids by substituted Amino- pyrimidines and its Supramolecular Network: S.Goswami*, Subrata Jana, **Nirmal Kumar Das**, H-KFun and SuchadaChantrapromma: *Journal of Molecular Structure*, **2008**, *876*, 313(Impact Factor: 2.01).

21. Advanced reagent for thionation: Rapid synthesis of primary thioamides from nitriles at room temperature: S.Goswami*, Annada C. Maity, **Nirmal Kumar Das**:*Journal of Sulphur Chemistry*, **2007**, *28*, 233(Impact Factor: 1.32).

22. TriseleniumDicyanide (TSD) as a New Cyanation Reagent: Synthesis of CyanoPterins and Quinoxalines Along with Library of Cyano N–Heterocyclic Compounds: ShyamaprosadGoswami*, Annada C. Maity, **Nirmal Kumar Das**, Debabrata Sen, and SibaprasadMaity: *Synthetic Communications*, **2008**, *39*, 407(Impact Factor: 1.38).