

Dr. SUBHASIS SAMAI

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Present Position:

Assistant Professor, Department of Chemistry, Raghunathpur College (Affiliated to Sidho-Kanho-Birsa University), Purulia-721133, WB

Research Experience:

1) **Post-doctorate 3 year (Dec 2013 to Dec 2016)**

Dr. D S Kothari post doc fellow (UGC) in the Department of Chemistry, Rajabazar Science College, University of Calcutta with **Prof. Dilip Kumar Maiti**.

2) **Research Associate (Aug 2013 to Sept 2013)**

IIT Kharagpur with Prof Saumen Hajra

3) **Post Doctorate 1 year (Aug 2012 to July 2013):**

With **Prof. Pher G. Andersson** (UKZN, Durban, South Africa and Uppsala University, Sweden) on asymmetric catalysis, asymmetric hydrogenation.

4) **Ph.D. Details (2008-2012):**

Thesis Title: “Multicomponent Reactions Leading to Heterocyclic Systems”

Supervisor: **Prof. Mayashankar Singh** (Department of Chemistry, Institute of Science, Banaras Hindu University, Varanasi, India)

5) **Project Work (Jan 2007-Aug 2007):**

Working as a Junior Research Fellow on polymer nanocomposite (Multiwalled carbon nanotube-poly(3-dodecylthiophene) nanocomposites) with Prof. Arun Kumar Nandi in Indian Association for the Cultivation of Science, Kolkata, India.

Areas of Research Interest:

- Organic Synthesis, Green Synthesis
- Material Chemistry
- Asymmetric Synthesis
- Mulicomponent Reactions (MCRs)

Educational Qualification:

Degree/ Examination	Institution	University/ Board	Subjects	Year	Percentage/ CGPA
Ph.D. (Organic Chemistry)	Department of Chemistry (Centre of Advanced Studies)	Banaras Hindu University	Organic Synthesis	2012	Degree obtained in 2012
M. Sc. (Chemistry)	Department of Chemistry Faculty of Science	Banaras Hindu University	Analytical, Inorganic, Organic(special) , Physical	2006	75.7/7.57
B.Sc. (Chem. Hons.)	Midnapore College	Vidyasagar University	Chemistry (Hons.) , Physics, Mathematics	2004	58.5%
Higher Secondary (XII)	Golgram R. B. B. M. H. High School	W.B.C.H.S.E	Chemistry, Mathematics, Physics, Biology(additional), English, Bengali	2001	75.0%
Secondary (X)	Parbatipur Mukundapur Deshapran High School	W.B.B.S.E	English, Bengali, Mathematics, Physical science, Life Science, Geography, History	1999	75.5%
B.Ed.	SKCE	WBUTTEPA	Education, Physical Sc (Method paper)	2019	CGPA-8.23

Educational Achievements:

- **DSK Post Doc Fellowship , UGC, 2013**
- **UKZN post Doc fellowship 2012**
- **CSIR-UGC NET (JRF)** (June-2006) qualified in Chemical Sciences (selected for SPM fellowship test)
- **CSIR-JRF** (Jan 2007 to Jan 2009)
- **CSIR-SRF** (Feb 2009-till now)
- **CSIR-UGC NET (LS)** in December, 2005 qualified in Chemical Science
- **All India rank-141 in IIT JAM exam** (M. Sc. Entrance test)
- **All India Rank-18 in BHU PET Entrance** (M. Sc. Entrance test)

Teaching experience:

- Assistant Professor, Department of Chemistry, Raghunathpur College, Purulia-721133 (24.08.2020-continuing till date)
- Guest Lecturer & SACT-1, City College, 102/1 Raja Rammohan Sarani, Kolkata-700009 (02.08.2017-23.08.2020)
- Guest Lecturer, Asutosh College, 92 SPM Road, Jatin Das Park, Kolkata-26 (2017-18)

Instrument Handled:

NMR, FTIR, UV-VIS, TGA, DLS

List of Publication:

1. **Subhasis Samai**, Debasish Ghosh, Uttam K. Das, Sanghamitra Atta, Saikat K. Manna, Dilip K. Maiti. "Water – the best solvent for DMAP-mediated dual cyclization towards metal-free first synthesis of fully substituted phthalimides" *Green Chemistry*, **2016**, *18*, 2961-2965.
2. Suvajit Koley, Tanmoy Chanda, **Subhasis Samai**, and Maya Shankar Singh. "Switching Selectivity of alpha-Enolic dithioesters: One Pot Access to Functionalized 1,2- and 1,3-Dithioles" *J. Org. Chem.* **2016**, *81*, 11594-11602.
3. Suvajit Koley, Sushobhan Chowdhury, Tanmoy Chanda, B. Janaki Ramulu, **Subhasis Samai**, Lerato Motisa, Maya Shankar Singh. "Lewis acid mediated three-component one-flask regioselective synthesis of densely functionalized 4-amino-1,2-dihydropyridines via cascade Knoevenagel/Michael/cyclization sequence" *Tetrahedron* **2015**, *71*, 301-307
4. Sumanta Jana, **Subhasis Samai**, Bibhas C. Mitra, Pulakesh Bera, Anup Mandal. "Nickel oxide thin film from electrodeposited nickel sulfide thin film: peroxide sensing and photo-decomposition of phenol" *Dalton Trans.* **2014**, *34*, 13096-13104.
5. **Subhasis Samai**, Tanmoy Chanda, Hiriyakkanavar Ila, Maya Shankar Singh. "One-Pot Three-Component Cascade Heteroannulation of β -Oxodithioesters, Amines and Hydroxylamine: Regioselective, Facile and Straightforward Entry to 3-Amino-5-Aryl/Alkyl isoxazoles" *European Journal of Organic Chemistry* **2013**, 4026-4031.
6. **Subhasis Samai**, Ganesh Chandra Nandi, M. S. Singh. "Highly convergent one-pot four-component regioselective synthesis of 4*H*-benzo[*f*]chromenes via ring annulation of β -oxodithioesters" *Tetrahedron* **2012**, *68*, 1247-1252.
7. **Subhasis Samai**, Ganesh Chandra Nandi, Sushobhan Chowdhury, M. S. Singh. "L-Proline catalyzed synthesis of densely functionalized pyrido[2,3-*d*]pyrimidines via three-component one-pot domino Knoevenagel aza-Diels-Alder reaction" *Tetrahedron* **2011**, *67*, 5935-5941.
8. **Subhasis Samai**, Ganesh Chandra Nandi, Pallavi Singh, M. S. Singh. "L-Proline: an efficient catalyst for the one-pot synthesis of 2,4,5-trisubstituted and 1,2,4,5-tetrasubstituted

imidazoles” *Tetrahedron* **2009**, *65*, 10155–10161. (Selected as 13th position article in 25 Hotest Articles in Tetrahedron from October-December, 2009)

9. **Subhasis Samai**, Ganesh Chandra Nandi, Ram Kumar, M. S. Singh. “Multicomponent one-pot solvent-free synthesis of functionalized unsymmetrical dihydro-1*H*-indeno[1,2-*b*]pyridines” *Tetrahedron Letters* **2009**, *50*, 7096–7098.
10. **Subhasis Samai**, Ganesh Chandra Nandi, M. S. Singh. “An efficient and facile one-pot synthesis of propargylamines by three-component coupling of aldehydes, amines and alkynes *via* C-H activation catalyzed by NiCl₂” *Tetrahedron Letters* **2010**, *51*, 5555-5558.
11. **Subhasis Samai**, Ganesh Chandra Nandi, Pallavi Singh, Ashutosh Gupta and M. S. Singh. “Microwave assisted Synthesis of chemiluminescent and theoretical studies of bromoalkyl esters of acridine-9-carboxylic acid” *Indian Journal of Chemistry, Sec B* **2011**, *50B*, 580-586.
12. Ganesh Chandra Nandi, **Subhasis Samai**, M. S. Singh. “Biginelli and Hantzsch-type reactions leading to highly functionalized dihydropyrimidinone, thiocoumarin and pyridopyrimidinone frameworks *via* ring annulation with β -oxodithioesters” *Journal of Organic Chemistry* **2010**, *75*, 7785-7795.
13. Ganesh Chandra Nandi, **Subhasis Samai**, M. S. Singh. “One-pot two-component [3+2] cycloaddition/annulation protocol for the synthesis of highly functionalized thiophene derivatives” *Journal of Organic Chemistry* **2011**, *76*, 8009-8014.
14. Sushobhan Chowdhury, Ganesh Chandra Nandi, **Subhasis Samai**, Maya Shankar Singh. “Regioselective Synthesis of Tetrahydrothiochromen-5-ones *via* One-pot Three-component Solvent-free Domino Protocol” *Organic Letters*, **2011**, *13*, 3762-3765.
15. Ganesh Chandra Nandi, **Subhasis Samai**, M. S. Singh “DABCO-Promoted three-component regioselective synthesis of functionalized chromen-5-ones and pyrano[3,2-*c*]chromen-5-ones *via* direct annulation of alpha-oxoketene-N,S- arylaminoacetals under solvent-free conditions” *Green Chemistry* **2012**, *14*, 447-455.
16. Ganesh Chandra Nandi, **Subhasis Samai**, Ram Kumar, M. S. Singh. “An efficient one-pot synthesis of tetrahydrobenzo[*a*]xanthene-11-one and diazabenzo [*a*]anthracene-9,11-dione derivatives under solvent free condition” *Tetrahedron* **2009**, *65*, 7129–7134.
17. Ganesh Chandra Nandi, **Subhasis Samai**, Ram Kumar, M. S. Singh. “Atom-efficient and environment-friendly multicomponent synthesis of amidoalkyl naphthols catalyzed by P₂O₅” *Tetrahedron Letters* **2009**, *50*, 7220–7222.
18. Ganesh Chandra Nandi, **Subhasis Samai**, M. S. Singh “First InCl₃-Catalyzed, Three-Component Coupling of Aldehydes, β -Naphthol and 6-Amino-1,3-dimethyluracil to Functionalized Naphthopyranopyrimidines” *Synlett* **2010**, 1133-1137.
19. Ganesh Chandra Nandi, **Subhasis Samai**, Ram Kumar, and M. S. Singh. “Silica-gel-catalyzed efficient synthesis of quinoxaline derivatives under solvent-free conditions” *Synthetic Communications* **2011**, *41*, 417–425.
20. Ashesh Garai, Biplab Kumar Kuila, **Subhasis Samai**, Somnath Roy, Pratap Mukherjee and Arun Kumar Nandi. “Physical and Electronic Properties in Multiwalled Carbon Nanotube–Poly(3-dodecylthiophene) Nanocomposites” *Journal of Polymer Science: Part B: Polymer Physics* **2009**, *47*, 1412-1425.

Seminar and Symposium attended:

1. **Poster presented** in 11th Chemical Research Society of India (CRSI) symposium, National Chemical Laboratory (NCL), Pune held on 6-8 Feb, 2009
2. **Poster presented** in 12th Chemical Research Society of India (CRSI) symposium, Indian Institute of Chemical Technology (IICT), Hyderabad held on 6-8 Feb, 2010.
3. **Oral Presentation** given in National Organic Symposium Trust (J-NOST) conference, Hyderabad Central University (HCU), Hyderabad held on 28-31 January, 2011.
4. **Poster Presented** in “National Symposium on Emerging Trends in Chemical Sciences (ETCS – 2011)” Department of Chemistry, Faculty of Science, Banaras Hindu University, Varanasi held on 19-20 February, 2011.

Organizer of Seminar/Webinar

- International Conference and Webinar on “Recent Progress in Bioactive Compounds & Molecules Against Respiratory Diseases and Comorbidities: Theranostics and Future Challenges” on 15-16 May, 2021 organized by Hericure and UKZN, Durban

Languages Known:

English, Bengali, Hindi

Personal Profile:

Name : Dr. Subhasis Samai
DOB : 23/08/1983
Marital Status : Married
Nationality : Indian
Religion : Hindu
Hobbies : Gardening, Cooking, Travelling, Listening music