Curriculum vitae

DR. SUBHASIS SAMAI

Assistant Professor
Department of Chemistry
Raghunathpur College (SKBU),
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Date of Birth: 23.08.1983
Sex: Male
Nationality: Indian

Academic Position:

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

Educational Qualification:

- **PhD (Chemistry, 2012):** "Multicomponent Reactions Leading to Heterocyclic Systems" Supervisor: Prof. Maya Shankar Singh, Department of Chemistry, Institute of Science, BHU, Varanasi
- **Bachelor of Education (2019):** WBUTTEPA Education, Physical Sc (Method paper)
- **Master of Science (2006): Chemistry (**Organic Chemistry Specialization), Department of Chemistry, Institute of Science, BHU, Varanasi
- **Bachelor of Science:** (2004, Chemistry Honours): Midnapur College, Vidyasagar University, Midnapore, WB, India.

- **Higher Secondary** (2001, Golgram RBBMH High School, West Bengal Council of Higher Secondary Education

- **Madhyamik** (1999): Parbatipur Mukundapur Deshapran High School, West Bengal Board of Secondary Education

Scholastic Achievement:

- 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
- AIR-141 in IIT JAM exam (M. Sc. Entrance test 2004)
- AIR18 in BHU PET Entrance (M. Sc. Entrance test 2004)

Research Interest:

- Organic Synthesis, Catalysis
- Green Synthesis
- Asymmetric Synthesis
- Mulicomponent Reactions (MCRs)
- C-H activation
- Photo-catalysed organic synthesis
- Materials

Research Experience:

- Anusandhan National Research Foundation (ANRF erstwhile SERB) TARE (TAR/2023/000060, 2024-2027): Host supervisor Prof ND Pradeep Singh, Department of Chemistry, IIT Kharagpur, Kharagpur, India
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- **Post-doctorate** 3 years (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.
- **Research Associate** (Aug 2013 to Sept 2013) IIT Kharagpur with Prof Saumen Hajra
- 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.
- **Ph.D.** (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)
- **Project** (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.

List of Publications:

Review Article:

1. **Subhasis Samai**, Sanghamitra Atta, Maya Shankar Singh, Synthetic Strategies Toward 2*H*-, 4*H*-Pyrans, and Pyranones: Recent Advances, ***ChemistrySelect***, **2025**, Volume 10, Issue 21 e01023.

2. **Subhasis Samai**, Sanghamitra Atta, Maya Shankar Singh, Metal-catalyzed Azide-alkyne Cycloaddition-click Chemistry: an Update (2016-2025), ***Tetrahedron***, **2025** (accepted Manuscript).

Research Article:

1. Anup Kumar Yadav, Vipin Kumar, Saurabh Singh, **Subhasis Samai**, Maya Shankar Singh, Synthesis of pyrrolo[3,4-c]pyridines via metal-free cross-coupling/cyclization cascades of β-ketothioamides with 2aroylmalononitrile at room temperature, ***Chem. Commun.*** **2025** (Accepted Manuscript) https://doi.org/10.1039/D5CC04230E.

2. Vimlesh Kumar Kanaujiya, Jeyakumar Kandasamy, **Subhasis Samai**, Maya Shankar Singh, "Efficient *N*-Nitrosation of Sulfonamides with *tert*-Butyl Nitrite at Room Temperature" ***Asian J. Org. Chem.*** **2025**, *14*, e202500276.

3. Ruchi Gaur, Sourav Roy, **Subhasis Samai**, "Scope and design of diversified supramolecular synthons of 5-hydroxyisophthalic acid: Crystallographic and theoretical investigations" ***J. Mol. Struct.*** **2025**, *1321*, 140097.

4. Prakash K Mandal, Sanghamitra Atta, Sudipto Debnath, **Subhasis Samai,** Radha Madhab Laha, Anindya S Manna, Soumyadeep Mitra, Koushik Saha, Dilip K Maiti, Unorthodox Nanocatalysis through a Carbosphere-Nanofabricated Pt–Si Nanocomposite: Effective Tandem Imination Protocol Involving Oxidative C= C Cleavage, ***Synlett*** **2025**, *36*, 1905-1916**.**

5. **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 Chem.*** **2016,** *18*, 2961-2965.

6. 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.

7. 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**.**

8. 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.**

9. **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" ***Eur. J. Org. Chem.*** **2013**, 4026-4031.

10. **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.

11. **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.

12. **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)

13. **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.

14. **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 $NiCl_2$" ***Tetrahedron Letters*** **2010**, *51*, 5555-5558.

15. **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" ***Ind. J. Chem., Sec B*** **2011,** *50B*, 580-586.

16. 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" ***J. Org. Chem.*** **2010**, *75*, 7785-7795.

17. 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" ***J. Org. Chem.*** **2011**, 76, 8009-8014.

18. 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" ***Org. Lett.*** **2011**, *13*, 3762-3765.

19. 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 Chem.*** **2012**, *14*, 447-455.

20. 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.

21. Ganesh Chandra Nandi, **Subhasis Samai**, Ram Kumar, M. S. Singh. "Atom-efficient and environment-friendly multicomponent synthesis of amidoalkyl naphthols catalyzed by P_2O_5" ***Tet. Lett.*** **2009**, *50*, 7220–7222.

22. Ganesh Chandra Nandi, **Subhasis Samai,** M. S. Singh "First $InCl_3$-Catalyzed, Three-Component Coupling of Aldehydes, β-Naphthol and 6-Amino-1,3-dimethyluracil to Functionalized Naphthopyranopyrimidines" ***Synlett*** **2010**, 1133-1137.

23. Ganesh Chandra Nandi, **Subhasis Samai**, Ram Kumar, and M. S. Singh. "Silica-gel–catalyzed efficient synthesis of quinoxaline derivatives under solvent-free conditions" ***Syn. Commun.*** **2011**, *4*1, 417–425.

24. 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" ***J. Polymer. Sci.: Part B: Polymer Physics*** **2009**, *47*, 1412-1425.

Presentation:

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, Hyderanad 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

Project Sanctioned:

"One- and Two-Photon Responsive Photo Acid Generators (PAGs) and Their Application for Functional Group Photolithography" funded by Anusandhan National Research Foundation (ANRF, erstwhile SERB) under Teachers Associateship For Research Excellence (TARE) Scheme (TAR/2023/000060, Sanctioned Amount: Rs-18,30,000/-, 2024-2027)

Host supervisor **Prof ND Pradeep Singh**, Department of Chemistry, IIT Kharagpur, Kharagpur, India

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References:

Available on request

Place: RAGHUNATHPUR