Dr. Partha Pratim Saikia's biography

Education:

- **2011** Ph.D. in Chemistry, Dibrugarh University
- **2004** M.Sc. in Chemistry, Gauhati University
- **2002** B.Sc. in Chemistry, Dibrugarh University (Govt. Science College, Jorhat)

Professional Experience:

- **2012-Present** Assistant Professor, N.N.Saikia College, Titabar, Jorhat
- **20011** Research Associate, Lecturer, Bishwanath College

Honors and Awards:

- "**The Best Research Paper -2010**" by North-East Institute of Science & Technology, Jorhat, India.
- "**Most Cited Paper Award**" for 2005-2008 & 2006-2009 by Elsevier.
- **Junior Research Fellowship** (2006-2008) and **Senior Research Fellowship** (2008-2010) awarded by Council of Scientific and Industrial Research, India on the basis of National Eligibility Test (NET).

Research Projects Undertaken

	Type of Project	Title of the Project	Funding Agency	Duration Year		Total Grant	Status
				From	To		
1	DST-TARE fellowship	Extraction of electrical energy from hydrological cycle through two-dimensional nanofluidic channels	SERB	2021		8,25,000/-	Ongoing
2	Major (DST Fast Track Project)	In situ generation of cyanide from novel non-tixic source: Application in a few important C-C bond forming reaction and possible extension to the synthesis of bioactive natural products	DST	2013	2016	23 lakhs	Completed

Research Publications

1. Synthesis of salicylic acid phenylethyl ester (SAPE) and its implication in immunomodulatory and anticancer roles
   Arup Jyoti Das, Monoj Kumar Das, Salam Pradeep Singh, **Partha Pratim Saikia**, Neelu Singh, Johirul Islam, Aftab Ansari, Pronobesh Chattopadhyay, Paulraj Rajamani, Tatsuro Miyaji & Sankar Chandra Deka *Scientific Reports*, **2022**, 12, pp. 1-18.
2. Reconstruction of soil components into multifunctional freestanding membranes
   J Deka, K Saha, T J Konch, R K Gogoi, S Saikia, **Partha P. Saikia**, G K Dutta, K Raidongia *ACS Omega*, **2019**, *4*(1), 1292-99.
3. Strategic formulation of grapheme oxide sheets for flexible monoliths and robust polymeric coatings embedded with durable bioinspired wettability
   A Das, J Deka, A M Rather, B K Bhunia, **Partha P. Saikia**, B B Mandal, K Raidongia, U Manna *ACSApplied Materials & Interface* **2017**, *9*(48), 42354-65
4. Structural characterization and surface environment of ZnO nanoflowers
   D Borah, M K Baruah, **Partha P. Saikia**, K K Senapaty, M Baruah, R Singha *J. Mater. Environ. Sci.* **2016**, *7* (1), pp. 331-36
5. Synthesis of ZnO Nanoparticles from Zinc Formate and Their Optical Properties
   S Boruah, S Mustafiza, D Saikia, H J Saikia, **Partha P. Saikia**, M K Baruah *American Chemical Science Journal* **2016**, *11*(4): 1-10
6. Evaluation of pKa Valuesof soil humic acids and their complexation properties
   S Paul, T Sharma, D Saikia, **Partha P. Saikia**, D. Borah, M K Baruah *International Journal of Plant & Soil Science* **2015**, *6*(4): 218-228
7. Ultra-visible and Infrared Spectroscopic Studies of Soil Humic Acids
   M Kachari, P Belwar, K Dutta, A Sarmah, **Partha P Saikia**, Mrinal K Baruah *International Journal of Plant & Soil Science* **2015**, *6* (4): 194-202
8. Effect of nanoparticles on the structural changes of char prepared by non-isothermal treatment of Assam coal (India) in nitrogen atmosphere
   MK Baruah, **Partha P Saikia**, T Paul, M K Barua, *J. Mater. Environ. Sci.* **2014**, *5* (3), pp. 711-714
9. A solvent-free method for the direct synthesis of Cbz-protected β-amino ketones using triphenylphosphine dibromide
   P Buragohain, **Partha P Saikia**, NC Barua *Tetrahedron Letters* **2013**, *54* (27), 3562-3564
10. Synthesis of a novel series of highly functionalized Baylis–Hillman adducts of artemisinin with potent anticancer activity

A Goswami, **Partha P Saikia**, B Saikia, NC Barua, AK Saxena, N Suri, M. Sharma *Tetrahedron Letters* **2013**, *54* (32), 4221-4224

11. Pd (o)-nanoparticles stabilized by tripodal phosphine based ligands and their catalytic activities on carbon carbon bond formation reactions
    BJ Borah, K Saikia, **Partha P Saikia**, NC Barua, DK Dutta *Catalysis Today* **2012**, *198* (1), 174-183
12. Dinitroaliphatics as linkers: application in the synthesis of novel artemisinin carba-dimer
    A Goswami, **Partha P Saikia**, B Saikia, NC Barua *Molecular diversity* **2011**, *15* (3), 707-712
13. An improved stereoselective total synthesis of (R)-rugulactone A Goswami, **Partha P Saikia**, B Saikia, D Chaturvedi, NC Barua *Tetrahedron Letters* **2011**, *52* (40), 5133-5135
14. Synthesis of a novel series of 1, 2, 3-triazole-containing artemisinin dimers with potent anticancer activity involving Huisgen 1, 3-dipolar cycloaddition reaction
    B Saikia, **Partha P Saikia**, A Goswami, NC Barua, AK Saxena, N Suri *Synthesis*, **2011**, 3173-3179
15. Stabilization of Cu (0)-nanoparticles into the nanopores of modified montmorillonite: An implication on the catalytic approach for "Click" reaction between azides and terminal alkynes
    BJ Borah, D Dutta, **PP Saikia**, NC Barua, DK Dutta *Green Chemistry* **2011**, *13* (12), 3453-3460
16. Bio-transformation of artemisinin using soil microbe: Direct C-acetoxylation of artemisinin at C-9 by Penicillium simplissimum.
    A Goswami, **Partha P Saikia**, N C Barua, M Bordoloi, A Yadav, T C Bora, B K Gogoi, A K Saxena, N Suri, M Sharma. *Bioorg. Med. Chem. Lett.* **2010**, *20*, 359-361.
17. Artemisinin and its derivatives: a novel class of anti-malarial and anti-cancer agents.
    D Chaturvedi, A Goswami, **Partha P Saikia**, N C Barua, P G Rao. *Chem. Soc. Rev.* **2010**, *39*, 435-454.
    (Among top ten most accessed papers of Chem Soc Rev, February, 2010.)
18. An Efficient Synthesis of Taxotere Side Chain.
    T J Devi, **Partha P Saikia**, N C Barua. *Lett. Org. Chem.* **2009**, *6*, 616-618.
19. An efficient and stereoselective route to 1-deoxy-5-hydroxy sphingosine analogues.

Partha P Saikia, G Baishya, A Goswami, N C Barua *Tetrahedron Lett.* **2008**, *49*, 6508-6511.

20. An efficient reduction protocol for the synthesis of β-hydroxycarbamates from

    β-nitro alcohols in one pot: a facile synthesis of (−)-β-conhydrine.

    Partha P Saikia, G Baishya, A Goswami, N C Barua. *Tetrahedron Lett.* **2008**, *49*, 6508-6511.

    (Highlighted in Organic Chemistry Portal, September 2009.)
21. Lithium amino borohydride, **Partha P Saikia** *Synlett* (Spotlight), **2007**, 995-996.
22. Catalytic asymmetric Henry reaction.

    J Boruwa, N Gogoi, **Partha P Saikia,** N C Barua. *Tetrahedron: Asymmetry* **2006**, *17*, 3315-3326.

    (Most cited paper award for 2005-2008 & 2006-2009 by Elsevier.)

Articles/Chapters published in Books

Sl. No.	Title with page numbers	Book Title, editor & publisher	ISSN/ISBN no.
1	Natural Polyphenols and Applications with Special Emphasis on C-Prenylated Flavonoids, pp. 223-238.	Chemistry of phenolic compounds: state of the art, Nova Science Publisher, USA, 2011	978-161761-335-7

Patent Filed

1. 1, 2, 3-triazole containing artemisinin compounds and process for preparation thereof
   B Saikia, NC Barua, **Partha P Saikia**, A Goswami, PG Rao, AK Saxena, N Suri 2015 US Patent 9,006,467
2. Series of artemisinin derivatives and process for preparation thereof
   G Baishya, NC Barua, A Goswami, **Partha P Saikia**, PG Rao, AK Saxena, N Suri, M. Sharma 2014 US Patent 8,841,466
3. A New series of Artemisinin Derivative with Potent Anticancer Activities. G. Baishya, N. C. Barua, A. Goswami, **Partha P Saikia**, P. G. Rao, A. K. Saxena, N. Suri, M Sharma. Filed in India, NF No. 0145 NF2009/IN.