

Personal Profile



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Educational Profile

Ph.D.	North Eastern Hill University, Shillong, Meghalaya; 2018 Supervisor: Dr. Amarta Kumar Pal
M.Sc./M.Tech/ M.Com./M.A./ M.Ed etc.	North Eastern Hill University, Shillong, Meghalaya; 2011 Subject: Chemistry Specialization: Organic Chemistry
B.Sc./B.Tech/ B.Com./B.A. etc.	North Eastern Hill University, Shillong, Meghalaya; 2009 Subject: XXXXXXXXX

Professional Experience

Assistant Professor, Department of Chemistry, Rajiv Gandhi University, Arunachal Pradesh, India	April, 2021-till date
Post-doctoral Fellow, Indian Institute of Technology, 2019-2021 Supervisor: Dr. Dipankar Srimani	April, 2019- March 2021

Awards & Honours

1. National Post-Doctoral Fellow, DST-SERB 2019
2. Qualified CSIR-UGC-NET for CSIR-JRF in Dec, 2016 and Dec, 2017
3. Qualified GATE in 2015 and 2017.

Research Interests

- Heterogeneous Catalysis
- Synthesis of Novel Materials for Catalytic Applications

- Visible light induced reactions
- Sustainable and Green Chemistry
- Dehydrogenative Coupling Reactions
- Synthesis of Heterocycles

Research Publications

1. Multicomponent dehydrogenative synthesis of acridine-1, 8-diones catalyzed by Ru-doped hydrotalcite: Sardar, B.; Jamatia, R.; Pal, D.; Srimani, D.; *Asian J. Org. Chem.* **2021**, *10*, 2195-2204.
2. Visible light induced manganese catalyzed reactions: a present approach and future prospects: Jamatia, R.; Mondal, A.; Srimani, D.; *Adv. Synth. Catal.* **2021**, *12*, 2696-2995.
3. Development of a new catalytic and sustainable methodology for the synthesis of benzodiazepine triazole scaffold using magnetically separable CuFe₂O₄@MIL101(Cr) nano-catalyst in aqueous medium: Gupta, A.; Sarkar, F. K.; Sarkar, R.; Jamatia, R.; Lee, C. Y.; Gupta, G.; Pal, A. K.; *Appl. Organomet. Chem.* **2020**, *e5782*, 1-12.
4. Reduced graphene oxide supported copper oxide nanocomposites: an efficient heterogeneous and reusable catalyst for the synthesis of ynones, 1,3-diyne and 1,5-benzodiazepines in one-pot under sustainable reaction conditions: Sarkar, R.; Gupta, A.; Jamatia, R.; Pal, A. K.; *Appl. Organomet. Chem.* **2020**, *34*, 1-20.
5. Development of Synergistic, Dual Pd-Cu@ rGO Catalyst for Suzuki, Heck and click reactions: facile synthesis of triazole or tetrazole containing biaryls and stilbenes: Gupta, A.; Jamatia, R.; Dam, B.; Pal, A. K.; *ChemistrySelect* **2018**, *3*, 8212-8220.
6. Copper oxide/reduced graphene oxide nanocomposite-catalyzed synthesis of flavanones and flavanones with triazole hybrid molecules in one pot: a green and sustainable Approach: Gupta, A.; Jamatia, R.; Patil, R. A.; Ma, Y.-R.; Pal, A. K.; *ACS Omega* **2018**, *3*, 7288-7299.
7. Metal-free greener syntheses of pyrimidine derivatives using a highly efficient and reusable graphite oxide carbocatalyst under solvent-free reaction conditions: Dam, B.; Jamatia, R.; Gupta, A.; Pal, A. K.; *ACS Sustainable Chem. Eng.* **2017**, *5*, 11459-11469.
8. Ru-ferrite-decorated graphene (RuFG): a sustainable and efficient catalyst for conversion of aromatic aldehydes and nitriles to primary amides in aqueous medium: Jamatia, R.; Gupta, A.; Pal, A. K.; *ACS Sustainable Chem. Eng.* **2017**, *5*, 7604-7612.
9. Metalloprotein Inspired Ruthenium Polymeric Complex: A Highly Efficient Catalyst in ppm Level for 1,3-dipolar Huisgen's Reaction in Aqueous Medium

- at Room Temperature: Gupta, A.; Jamatia, R.; Mahato, M.; Pal, A. K.; *Ind. Eng. Chem. Res.* **2017**, *56*, 2375-2382.
- Graphite oxide a metal free highly efficient carbocatalyst for the synthesis of 1,5-benzodiazepines under room temperature and solvent free heating condition: Jamatia, R.; Gupta, A.; Dam, B.; Saha, M.; Pal, A. K.; *Green Chem.* **2017**, *19*, 1576-1585.
 - A metalloprotein inspired ruthenium complex as an efficient and reusable catalyst for selective oxidation of alcohols to their corresponding carbonyl compounds: Jamatia, R.; Gupta, A.; Mahato, M.; Patil, R. A.; Ma, Y.-R.; Pal, A. K.; *ChemistrySelect* **2016**, *1*, 5929-5935.
 - A coumarin based schiff base probe for selective fluorescence detection of Al³⁺ and its application in live cell imaging: Sen, B.; Sheet, S. K.; Thounaojam, R.; Jamatia, R.; Pal, A. K.; Aguan, K.; Khatua, S.; *Spectrochim. Acta A: Mol. Biomol. Spectrosc.* **2017**, *173*, 537-543.
 - Nano-ferrite supported glutathione as a reusable nano-organocatalyst for the synthesis of phthalazine-trione and dione derivatives under solvent-free conditions: Dam, B.; Saha, M.; Jamatia, R.; Pal, A. K.; *RSC Adv.* **2016**, *6*, 54768-54776.
 - Superparamagnetic copper ferrite nanoparticles catalyzed one step regioselective synthesis of dibenzodiazepinones via ligand and base free Ullmann type coupling reaction: Jamatia, R.; Gupta, A.; Pal, A. K.; *ChemistrySelect* **2016**, *4*, 852-860.
 - Nano-FGT: a green and sustainable catalyst for the synthesis of spirooxindoles in aqueous medium: Jamatia, R.; Gupta, A.; Pal, A. K.; *RSC Adv.* **2016**, *6*, 20994-21000.
 - Ferrite-supported glutathione: an efficient, green nano-organocatalyst for the synthesis of pyran derivatives: Gupta, A.; **Jamatia, R.**; Pal, A. K.; *New J. Chem.* **2015**, *39*, 5636-5642.
 - An efficient facile and one-pot synthesis of benzodiazepines and chemoselective 1,2-disubstituted benzimidazoles using a magnetically retrievable Fe₃O₄ nanocatalyst under solvent free conditions: **Jamatia, R.**; Saha, M.; Pal, A. K.; *RSC Adv.* **2014**, *4*, 12826-12833.
 - Solvent free, Ni-nanoparticle catalyzed greener synthesis and photophysical studies of novel 2*H*-indazolo[2,1-*b*] phthalazine-trione derivatives: Saha, M.; Phukan, S.; Jamatia, R.; Mitra, S.; Pal, A. K.; *RSC Adv.* **2013**, *3*, 1714-1721.

Course/Conference/Workshop etc. attended

- Delivered an invited talk in 'Sustainable Chemistry and its impact on Society', a 'National Webinar' held at Department of Chemistry, St. Joseph College, Jakhama, India during 27th -28th August, 2021.
Title of the talk: Nanomaterials in organic synthesis.

2. Presented a poster in 'Sophisticated instruments in modern research', held at Indian Institute of Technology-Guwahati, Guwahati, India during 30th June -1st July, 2017.

Title of the presentation: Graphite oxide a metal free highly efficient carbocatalyst for the synthesis of 1,5-benzodiazepines under room temperature and solvent free heating condition

3. Delivered an oral presentation in 'Harnessing natural resources for sustainable development: Global Trends', an 'International Seminar' held at Department of Chemistry, Cotton College, Guwahati, India during 29th-31st January, 2014.

Title of the presentation: An efficient facile and one-pot synthesis of benzodiazepines and chemoselective 1,2- disubstituted benzimidazoles using a magnetically retrievable Fe₃O₄ nanocatalyst under solvent free conditions.

4. Presented a poster in 'Recent trends and perspectives in chemistry', held at National Institute of Technology, Sikkim, India during 23rd -24th January, 2015.

Title of the presentation: An efficient facile and one-pot synthesis of benzodiazepines and chemoselective 1,2- disubstituted benzimidazoles using a magnetically retrievable Fe₃O₄ nanocatalyst under solvent free conditions.