GUWAHATI COLLEGE

| 01. NAME | : Dr. Rituparna Chutia | 00 |
|---------------------|-----------------------------------|----------------|
| 02. QUALIFICATION | : PhD in Chemistry | F |
| 03. DESIGNATION | : Assistant Professor | AND |
| 04. DEPARTMENT | : Chemistry | and the second |
| 05. SPECIALIZATION | : Organic Chemistry | |
| 06. EMAIL ID | : rituparnachutia22@gmail.com | |
| 10. DATE OF JOINING | : 24 th September 2022 | |

11. ACADEMIC SUMMARY:

| DEGREE | INSTITUTION | YEAR OF AWARD |
|--------|----------------------|---------------|
| B.Sc | Gargaon College | 2013 |
| M.Sc | Dibrugarh University | 2015 |
| M.PHIL | N/A | N/A |
| PhD | Dibrugarh University | 2021 |
| SLET | - | 2018 |

12. TEACHING EXPERIENCE:

- i. Assistant Professor (Contractual): Department of Chemistry, Dibrugarh University from February 2021-September 2022
- ii. Assistant Teacher (Contractual): Department of Physics, Integrated M.Sc Dibrugarh University, from 2017-2018.
- iii. Assistant Professor (Contractual): Department of Chemistry, Gargaon College from January 2016-April 2016.

13. Awards/Fellowship Received:

- i. Worked as Supporting Research Staff under SAP-DRS-I Project from 2017-2019.
- ii. Received Best Poster Award (3rd Prize) in National Science Day organized by Dibrugarh Uiversity in association with DURSA and DUPGSU on 28th February 2015.
- 14. **SUBJECT / TOPIC TAUGHT** : Physical Chemistry, Catalysis, Organic Chemistry:

Mechanism and Synthesis

15. **RESEARCH ACTIVITIES** : Nanocatalysis, Synthetic Organic Chemistry

16. PUBLICATIONS

- A highly active Pd-CuFe₂O₄ magnetic nanocatalyst for ligand free Suzuki-Miyura coupling reaction. R. Chutia, B. Chetia and R. Hazarika *Results in Chemistry* 2021 3 100225. ISSN 2211-7156. Publisher: Elsevier
- Ligand and additive free aerobic synthesis of diynes using Pd–CuFe₂O₄ magnetic nanoparticles as an efficient reusable catalyst, *New Journal of Chemistry*, **2020**, 44, 18199-18207. ISSN: 1144-0546. Publisher: *Royal Society of Chemistry*
- iii. An efficient base and H₂O₂ free protocol for the synthesis of phenols in water and oxygen using spinel CuFe₂O₄ magnetic nanoparticles. **R. Chutia** and B. Chetia, Journal of Coordination Chemistry. **2020**, doi: 10.1080/00958972.2020.1802437. ISSN: 0095-8972. Publisher: *Taylor and Francis Ltd.*
- Acetylation of alcohols, phenols and amines using waste plant extract. R. Chutia and B. Chetia, SN Applied Sciences. 2020, 2, 1564, ISSN: 2523-3971. Publisher: Springer.
- A simple, fast and excellent protocol for the synthesis of phenols using CuFe₂O₄ magnetic nanoparticles. **R. Chutia** and B. Chetia, *J. Chem. Sci.* **2019**, 131, 48. ISSN: 0974-3626. Publisher: *Springer*.
- vi. Biogenic CuFe₂O₄ Magnetic Nanoparticles as a green, reusable and excellent nanocatalyst for the acetylation reaction under solvent free conditions; **R. Chutia** and B. Chetia; *New Journal of Chemistry*, **2018**, 42, 15200 --15206. ISSN: 1144-0546. Publisher: *Royal Society of Chemistry*.
- vii. Solvent free synthesis of Ynones using magnetically recoverable Copper-ferrite nanoparticles; **R. Chutia** and B. Chetia; *Tetrahedron Letters*, **2017**, *58(40)*, 3864-3867. ISSN: 0040-4039. Publisher: *Elsevier*.

BOOK CHAPTERS PUBLISHED:

- From Waste to Catalyst: New and Future Developments in Catalysis; R. Chutia; Advances in Chemical Sciences (*Volume – 01*), 2021, ISBN: 978-93-90471-37-9. Publisher: *Integrated Publications*.
- II. Magnetic Nanoparticles: A solution to the Next Generation Water Purification Problem; R. Chutia and B. Chetia; *Research Trends in Chemical Sciences (Volume - 06)*, 2019, ISBN: 978-93-5335-684-2. Publisher: *AkiNik Publications*
- III. Magnetic nanocatalyst: A Review. Author: Rituparna Chutia. Book: KHOJ. ISBN: 2278-5244.

17. SEMINARS/ CONFERENCES/WORKSHOPS ATTENDANT AND PRESENTED :

ORAL PRESENTATION:

i. **Rituparna Chutia**, Bolin Chetia **(2018)** Presentation on "Base and H_2O_2 free protocol for the Synthesis of Phenols using Biogenic $CuFe_2O_4$ Magnetic nanoparticles" presented at **International Conference** on Frontiers at the Chemistry- Allied Sciences Interface. Organized By Department Chemistry, University of Rajasthan, Jaipur, India. ii. **Rituparna Chutia,** Bolin Chetia **(2017)** Presentation on *"Biogenic synthesis of Copper-Ferrite Magnetic Nanoparticles and their applications for the solvent free synthesis of ynones" presented at National Seminar on NanoMaterials Science, Technology and Applications. Organized by Department of Physics, Dibrugarh University, Dibrugarh Assam.*

POSTER PRESENTATION:

- i. Rituparna Chutia, Bolin Chetia (2023) Presentation on "A ligand free route for the Suzuki–Miyura coupling reaction using highly active Pd-CuFe₂O₄ magnetic nanocatalyst" presented at International Conference on "Recent Advances in Materials Chemistry and Catalysis-RAMCC 2023. Organized by Department of Chemistry, Dibrugarh University, Dibrugarh Assam.
- ii. Rituparna Chutia, Bolin Chetia (2019) Presentation on "Highly Efficient Coupling of Acid Chlorides with Terminal Alkynes using Magnetic Nanocatalyst" presented at Lecture Workshop on Role of Chemistry in Interdisciplinary Research. Organized by Department of Chemistry, Dibrugarh University, Dibrugarh Assam.
- iii. **Rituparna Chutia,** Bolin Chetia **(2018)** Presentation on "An efficient heterogeneous catalyst for the ipso-hydroxylation of arylboronic acids using biogenic $CuFe_2O_4$ MNP's" presented at **International Conference** on Emerging Trends in Chemical Sciences. Organized by Department of Chemistry, Dibrugarh University, Dibrugarh Assam.
- iv. Rituparna Chutia, Bolin Chetia (2017) Presentation on "Novel Protocol for Acetylation Reaction Using Copper-Ferrite Nanoparticles" presented at National Seminar on Recent Developments in Synthesis and Catalysis. Organized by Department of Chemistry, Dibrugarh University, Dibrugarh Assam.
- v. **Rituparna Chutia**, Bolin Chetia **(2017)** Presentation on "*Magnetically Recoverable Copper-Ferrite Nanoparticles in the Synthesis of Ynones" presented at International Conference* on Emerging Trends in Nanomaterials Science and Technology. Organized by the Department of Science and Humanities National Institute of Technology (NIT) Nagaland, Dimapur.

WORKSHOPS AND TRAINING PROGRAMMES:

- Hands on Training Program on Sophisticated Analytical Instrumentation Techniques for Basic Research and Development organized by Department of Chemistry, Dibrugarh University under the aegis of PMU, NIT Agartala on 24th-30th August, 2022.
- ii. IP Awareness/Training Program under **National Intellectual Awareness Mission** organized by Intellectual Property Office, India on 27th December, 2021.

- Workshop on Information Literacy on Academic Integrity and Prevention of Plagiarism organized by Dibrugarh University Research Scholar Association on 3rd January, 2020.
- iv. Lecture Workshop on **Role of Chemistry in Interdisciplinary Research** 2019; Organized by Department of Chemistry, Dibrugarh University, Dibrugarh Assam.
- v. National Workshop on **Computational Chemistry with special emphasis on electronic structure methods** 19-21 November, 2018; Organized by Department of Chemistry, Dibrugarh University, Dibrugarh, Assam
- vi. National Workshop on **Research Paper and Project Proposal Writing** 24th & 25th October, 2016; Organized by Dibrugarh University Research Scholars' Association (DURSA).