CURRICULUM-VITAE

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Educational Qualifications

B. Sc. (Chemistry) = D.H.S.K. College, Dibrugarh (2009-2012)

M. Sc. (Organic Chemistry) = Dibrugarh University (2012-2014)

Ph.D. = Department of Chemistry, Dibrugarh University (2015-2019)

Thesis Title = "*A Study of Carbon-Nitrogen Bond Forming Cross Coupling Reactions under Green Conditions*"

Supervisor = Dr. Diganta Sarma, Associate Professor, Department of Chemistry, Dibrugarh University

ACHIEVEMENTS: - (i) Qualified SLET in 2014-2015

(ii) Qualified GATE 2015

(iii) Qualified CSIR-NET (LS) in December 2016

List of Publications:-

1. Chetia, M.; **Konwar, M.**; Pegu, B.; Konwer, S.; Sarma, D. Synthesis of copper containing polyaniline composites through interfacial polymerisation: An effective catalyst for Click reaction at room temperature, *J. Mol. Struct.*, **2021**, 130019.

2. **Konwar, M.**; Sarma, D. Advances in developing small molecule SARS 3CLpro inhibitors as potential remedy for corona virus infection, *Tetrahedron*, **2021**, *77*, 131761.
3. Hazarika, R.; **Konwar, M.**; Damarla, K.; Kumar, A.; Sarma, D. HBF_4/CAN: A simple and efficient protocol for the synthesis of pyrazoles under ambient reaction conditions, *Syn. Commun.*, **2020**, *50*, 329-337.
4. **Konwar, M.;** Phukan, P.; Chaliha, A. K.; Buragohain, A. K.; Damarla, K.; Gogoi, D.; Kumar, A.; Sarma, D. An Unexplored Lewis Acidic Catalytic System for Synthesis of Pyrazole and its Biaryls Derivatives with Antimicrobial Activities through Cycloaddition-Iodination-Suzuki Reaction, *ChemistrySelect*, **2019**, *4*, 10236– 10245.
5. **Konwar, M.**; Elnagdy, H. M. F.; Gehlot, P. S.; Khupse, N. D.; Kumar, A.; Sarma, D. Transition Metal Containing Ionic Liquid Assisted One pot Synthesis of Pyrazoles at Room Temperature, *J. Chem. Sci.*, **2019**, *131*, 80.
6. **Konwar, M.**; Chetia, M.; Sarma, D. A Low-Cost, Well-Designed Catalytic System Derived from Household Waste "Egg Shell": Applications in Organic Transformations, *Top. Curr. Chem.*, **2019**, *377*, 6.
7. **Konwar, M.**; Hazarika, R.; Ali, A. A.; Chetia, M.; Khupse, N. D.; Saikia, P. J.; Sarma, D. Benedict's solution/ vitamin C: An alternative catalytic protocol for the synthesis of regioselective-1,4-disubstituted-1*H*-1,2,3-triazoles at room temperature, *Appl Organometal Chem*., **2018**, *32*, e4425.
8. **Konwar, M.**; Khupse, N. D.; Saikia, P. J.; Sarma, D. A potential greener protocol for peptide coupling reactions using recyclable/reusable ionic liquid $[C_4\text{-DABCO}][N(CN)_2]$, *J. Chem. Sci.*, **2018**, *130*, 53.
9. **Konwar, M.**, Boruah, P. R., Saikia, P. J., Khupse, N. D., Sarma, D. ESP-Promoted Suzuki-Miyaura Cross-Coupling and Peptide Bond Formation Reactions in Water at Room Temperature, *ChemistrySelect*, **2017**, *2*, 4983 – 4987.

10. **Konwar, M.**, Ali, A. A., Chetia, M., Saikia, P. J., Khupse, N. D., Sarma, D. ESP Promoted "On Water" Click Reaction: A Highly Economic and Sustainable Protocol for 1,4-Disubstituted-1H-1,2,3-Triazole Synthesis at Room Temperature. *ChemistrySelect*, **2016**, *1*, 6016-6019.
11. Ali, A. A.; **Konwar, M.**; Chetia, M.; Sarma, D. [Bmim]OH mediated Cu-catalyzed azide–alkyne cycloaddition reaction: A potential green route to 1,4-disubstituted-1,2, 3-triazoles, *Tetrahedron Lett.*, **2016**, *57*, 5661-5665.
12. **Konwar, M.**, Ali, A. A., Chetia, M., Saikia, P. J., Sarma, D. Fehling solution/DIPEA/hydrazine: an alternative catalytic medium for regioselective synthesis of 1,4-disubstituted-1H-1,2,3-triazoles using azide–alkyne cycloaddition reaction, *Tetrahedron Lett*, **2016**, *57*, 4473–4476.
13. **Konwar, M.**, Ali, A.A., Sarma, D. A Green Protocol for Peptide Bond Formation in WEB, *Tetrahedron Letters*, **2016**, *57*, 2283–2285.

List of book chapters:-

1. **Manashjyoti Konwar**, Apurba Dutta, Diganta Sarma, "Green Sustainable Process for Chemical and Environmental Engineering and Science" 1st edition of "Sustainable Organic Synthesis", Elsevier Publication, ISBN: 9780128195390; Editors: Dr. Inamuddin, Rajender Boddula, Abdullah M. Asiri, **2020**, 123-154.

2**. Manashjyoti Konwar**, Mitali Chetia, Diganta Sarma, "Low cost well design heterogeneous catalyst derived from eggshell waste and its applications in organic transformations" Kaustubh Prakashan & Printers, ISBN- 978-93-82283-14-0.

List of Poster Presentation:-

1. **Emerging Trends in Chemical Sciences (ETCS-2020)** organized by Department of Chemistry, Guwahati University, 13-15th February, 2020 on "Benedict solution/Ascorbic acid: A Green Catalytic Reaction Medium for the Synthesis of 1,2,3-Triazole through in-situ Generated Dinuclear Copper Ascorbate Complex"
2. **Emerging Trends in Chemical Sciences (ETCS-2018)** organized by Department of Chemistry, Dibrugarh University, 26-28th February, 2018 on **"**A Greener Protocol for Lewis Acid Catalyzed Pyrazole Synthesis at Room Temperature**"**
3. **Recent Developments in Synthesis and Catalysis (RDSC-2017)** organized by Department of Chemistry, Dibrugarh University, 10-11th March, 2017 on "**A Novel Green Protocol for Recyclable/Reusable Ionic Liquid and Coupling Agent System for Peptide Coupling Reactions"**
4. **20th CRSI-RSC National Symposium in Chemistry** organized by Department of Chemistry, Gauhati University, 3-5th February, 2017 on "**An Alternative Basic Catalytic System for Regioselective Synthesis of 1,4-disubstituted-1H-1,2,3-triazoles Using Azide–Alkyne Cycloaddition Reaction in Water"**
5. **National Symposium on Natural Products: Prospects & Perspectives** organized by CSIR-NEIST from 21-22 March, 2016 on "**Fehling Solution: A Green Catalytic Medium for the Synthesis of 1,2,3-Triazoles Using Azide-Alkyne Cycloaddition"**
6. **Contemporary Developments in Chemical Sciences-2015** organized by Tezpur university from 23 - 24 November, 2015 on "**A Novel Green Protocol for Peptide Bond Formation in Aqueous Medium**"

List of Oral Presentation:-

1. **Fourth International Conference on Reuse and Recycling of Materials (ICRM-2018)** organized by Mahatma Gandhi University, Kottayam, Kerala, India and Wroclaw University of Technology, Poland, 9-11th March, 2018 on "Household Waste ESP to Well Design Heterogeneous Catalyst: A Green Approach to the Synthesis of Various Organic Molecules"