

Personal Profile

Dr. Sabir Ahammed
Assistant Professor
Department of Chemistry,
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Address

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Date of Joining: 1st July, 2017

Educational Qualification

MSc. (Organic Chemistry), Jadavpur University, Kolkata-700032, India.

PhD. (Chemistry), Indian Association for the Cultivation of Science, Kolkata-700032, India.

Area of Teaching

Organic and General Chemistry.

Research Interest

The development of new synthetic method based on the Radical processes, Organocatalysis and Transition metal catalysis, Organometallic Chemistry-Particularly Transition metal catalyzed cross coupling, Multicomponent reaction, Preparation of solid supported nano-

catalyst and exploit its application in organic transformation, visible light / sunlight catalyzed organic transformation.

Awards and Fellowships

1. National Eligibility Test (NET- CSIR)
2. Graduate Aptitude Test (GATE)
3. Junior Research Fellow
4. Senior Research Fellow
5. DST-SERB Young Scientist Fellow

Research Project

DST-SERB Project:

Principal Investigator: Dr. Sabir Ahammed

Project Title: Synthesis of Palladium Pincer Catalysts and Their Application in Amination and Oxygenation Through C-H Bond Functionalization.

Project Type: Major Project (32 Lakhs)

Current Status: Running (From 01-10-2015 to Till Now)

Duration of Project: 3 Years

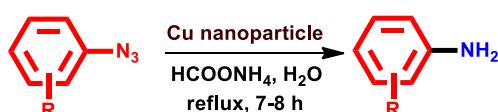
Member of Personal Body

Life member: Indian Association for the Cultivation of Science (IACS)

Editorial Board Member: *Journal of Toxicology and Molecular Biology*

List of Research Papers in International Journal

1. Hydrogenation of Azides over Copper Nanoparticle Surface Using Ammonium Formate in Water. S. Ahammed, A. Saha, B. C. Ranu, *J. Org. Chem.*, 2011, 76, 7235-7239.

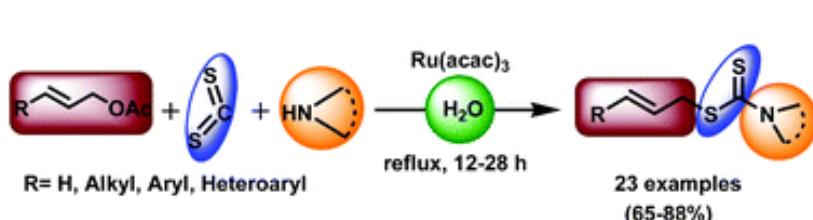


R = Me, OMe, F, Cl, Br, I, NO₂, CN, COOH, COOMe, COMe, O-Bn, O-Allyl, N-Bn, N-Allyl



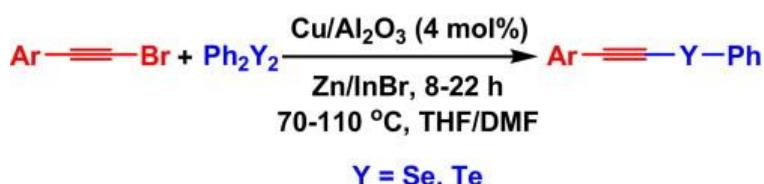
2. Ruthenium (III)-Catalyzed One-pot Synthesis of S-allyl and Cinnamyl Dithiocarbamates using Allyl and Cinnamyl Acetates in Water.

S. Ahammed, A. Saha, B. C. Ranu, *RSC Advances*, 2012, 2, 6329-6335.

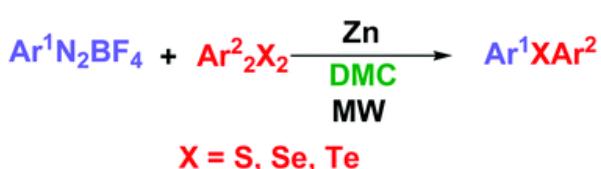


3. An efficient and general procedure for the synthesis of alkynyl chalcogenides (selenides and tellurides) by alumina-supported Cu(II)-catalyzed reaction of alkynyl bromides and diphenyl dichalcogenides.

S. Ahammed, S. Bhadra, D. Kundu, B. Sreedhar, B. C. Ranu, *Tetrahedron*, 2012, 68, 10542-10549.

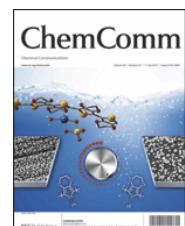
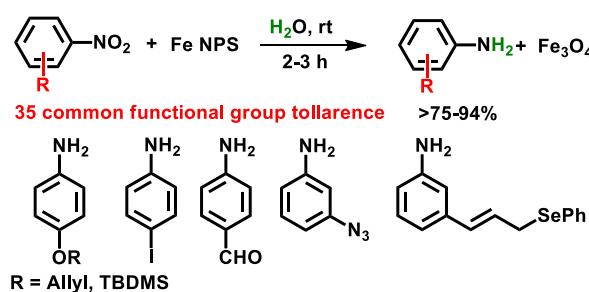


4. Microwave-assisted reaction of aryl diazonium fluoroborate and diaryl dichalcogenides in dimethyl carbonate: a general procedure for the synthesis of unsymmetrical diaryl chalcogenides. D. Kundu, **S. Ahammed**, B. C. Ranu, *Green Chem.*, 2012, 14, 2024-2030.



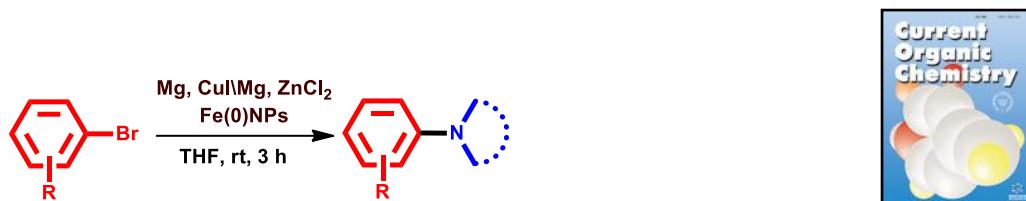
5. Highly Selective Reduction of Nitro Arenes by Iron (0) Nanoparticles in Water

R. Dey, N. Mukherjee, **S. Ahammed** and B.C. Ranu, *Chem. Commun.* 2012, 48, 7982-7984



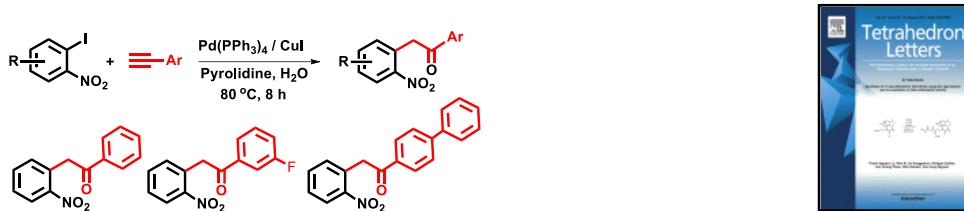
6. Iron Nano-particle Catalysed Electrophilic Amination of Functionalized Organocopper and Organozinc Reagents.

S. Bhadra, **S. Ahammed**, B. C. Ranu, *Current Organic Chemistry*, 2012, 16, 1453-1460.



7. Palladium and Copper Catalyzed One-pot Sonogashira Reaction of 2-Nitroiodobenzenes with Aryl Acetylenes and Subsequent Regioselective Hydration in Water: Synthesis of 2-(2-Nitrophenyl)-1-aryl Ethanones.

S. Ahammed, R. Dey and B. C. Ranu, *Tetrahedron Lett.* 2013, 54, 3697-3701.



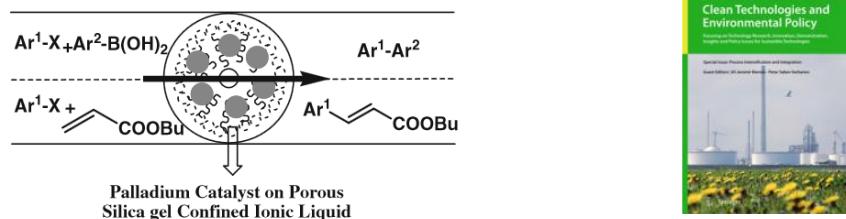
8. Solvent-free one-pot synthesis of 1,2,3-triazole derivatives by ‘Click’ reaction of alkyl halides or aryl boronic acids, sodium azide and terminal alkynes over Cu/Al₂O₃ surface under ball milling.

N. Mukherjee, **S. Ahammed**, S. Bhadra, B. C. Ranu, *Green. Chem.*, 2013, 15, 389-397.



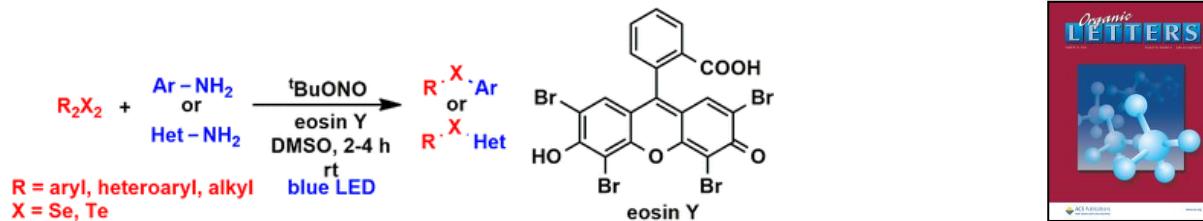
9. Palladium Supported on Silica Gel Confined Ionic Liquid as a Reusable Catalyst for Carbon-Carbon Cross Coupling Reaction in Water.

S. Ghosh, R. Dey, **S. Ahammed** and B. C. Ranu, *Clean Tech. & Env. Policy*, 2013, DOI 10.1007/s10098-013-0658-7



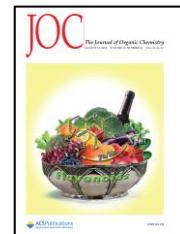
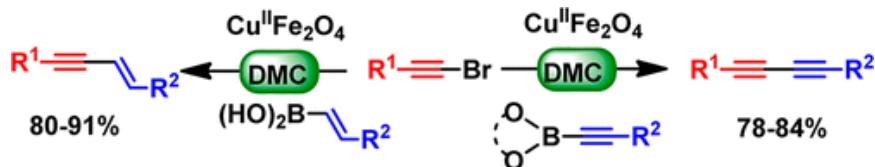
10. Visible light photocatalyzed direct conversion of aryl/heteroaryl amines to selenides at room temperature.

D. Kundu, **S. Ahammed**, B. C. Ranu, *Org. Lett.*, 2014, 16, 1814-1817.



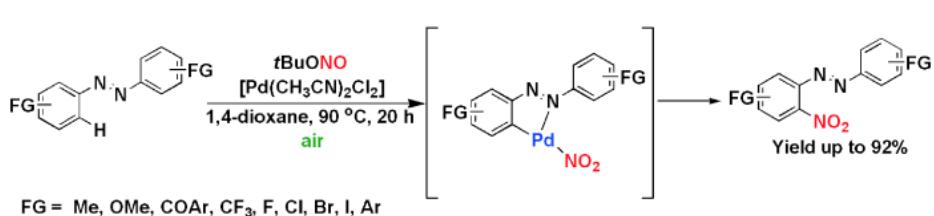
11. Cu-Catalyzed Fe-driven $C_{sp}-C_{sp}$ and $C_{sp}-C_{sp2}$ cross-coupling: An access to 1,3-diyne and 1,3-enynes.

S. Ahammed, D. Kundu, B. C. Ranu, *J. Org. Chem.*, 2014, 79, 7391-7398.



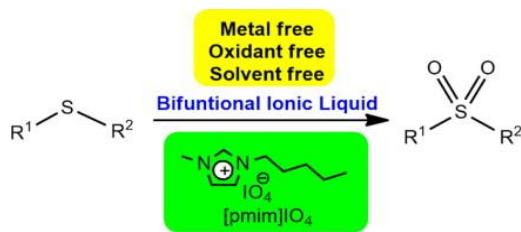
12. *Tert*-butyl nitrite mediated regiospecific nitration of (*E*)-azoarenes through Palladium-catalyzed directed C-H activation.

B. Majhi, D. Kundu, **S. Ahammed**, B. C. Ranu, *Chem. Eur. J.*, 2014, 20, 9862-9866.



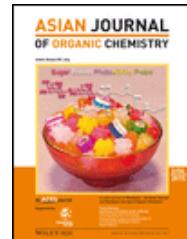
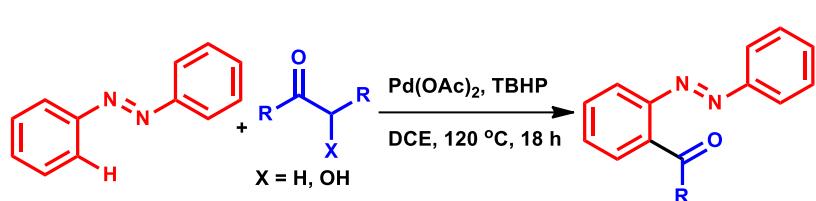
13. Metal and Solvent Free Selective Oxidation of Sulfides to Sulfone using Bifunctional Ionic Liquid [pmim]IO₄.

S. Ahammed, D. Kundu, M. N. Siddiqui, B. C. Ranu, *Tetrahedron Lett.*, 2015, 56, 335-337.



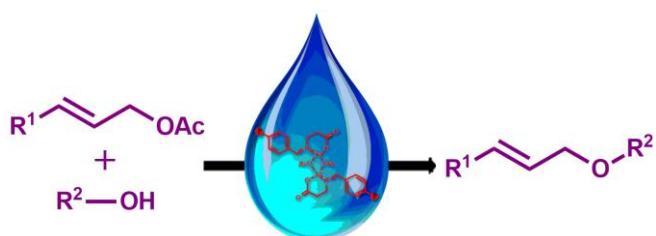
14. Pd-Catalyzed Oxidative C-C Bond Cleavage of α -Hydroxy Ketone: Application to C-H Acylation of Azoarenes and Synthesis of a Liver(X) Receptor Agonist.

B. Majhi, **S. Ahammed**, D. Kundu, B. C. Ranu, *Asian J. Org. Chem.* **2015**, *4*, 154-163.

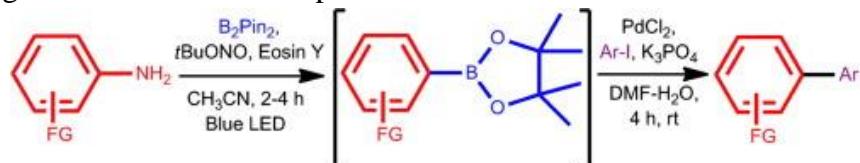


15. Polymeric β -alanine incarcerated Pd(II) catalyzed allylic etherification in water: A mild and efficient method for the formation of C(sp³)-O bond

M. Halder, M. M. Islam, **S. Ahammed***, S. M. Islam *, *RSC Advances*, **2016**, DOI: 10.1039/C5RA26182A.

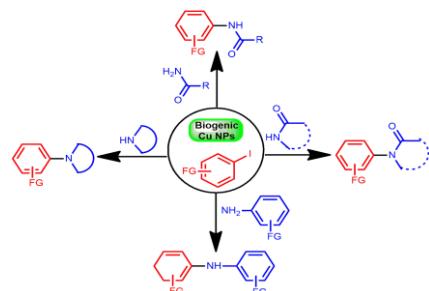


16. One-pot Suzuki coupling of aromatic amines *via* visible light photocatalyzed metal free borylation using t-BuONO at room temperature.



S. Ahammed, S. Nandi, D. Kundu, B. C. Ranu, *Tetrahedron Lett.* **2016**, *57*, 1551-1554.

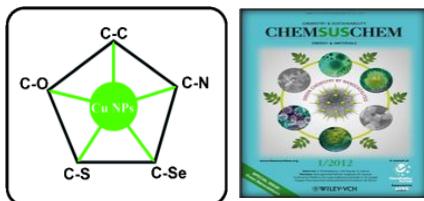
17. Biogenic Nano-CuO-Catalyzed Facile C–N Cross-Coupling Reactions: Scope and Mechanism.



M. Halder, M. M. Islam, Z. Ansari, **S. Ahammed***, K. Sen, and S. M. Islam, *ACS Sustainable Chem. Eng.*, **2017**, *5*, 648-657.

Review Articles

18. Copper Nanoparticles Catalyzed Carbon-Carbon and Carbon-Hetero Atom Bond Formation with Greener Perspective.



B. C. Ranu, R. Dey, T. Chatterjee and S. Ahammed, *ChemSusChem*, 2012, 5, 22-44

19. Microwave Assisted Synthesis of Chalcogenides.

S. Ahammed, D. Kundu, N. Mukherjee and B. C. Ranu, *Current Microwave Chemistry*, 2016, 2, 1-11.

International / National Patent

20. Preparation of (benzotriazin-3(4H)-yl)butanoic acid derivatives as matrix metalloproteinase inhibitors.

M. K. Khera, A. Soni, J. Sattigeri, V. Sattigeri, B. Das, I. A. Cliffe, P. K. Bhatnagar, A. R. A. Rauf, A. Musib, S. Ahammed, S. Saha, N. K. Yadav, R. R. Reddy, A. Ray, P. Srivastava, S. G. Dastidar, *PCT Int. Appl. (2012)*, WO 2012038942 A1 20120329.

National / International Seminars / Workshop / Conference

Name of Symposium/ Conference/Workshop	Topic	Duration	Nature of Participation
1. 13 th CRSI National Symposium in Chemistry (NISER, Bhubaneswar, India)	Copper Nanoparticles: An Efficient Catalyst For Chemoselective Azide Reduction	February 4-6, 2011	Poster Presentation
2. International Symposium on Chemistry and Complexity (IACS, Kolkata, India)	Highly selective reduction of nitroarenes by	December 6-8, 2011	Poster Presentation

	iron(0) NPs in water		
3. Chemical Research Society of India (North Zone Meeting) Symposium (University of Jammu, Jammu, India)	Ruthenium Catalyzed One-pot S-Allylation of Dithiocarbamate in Water	September 22-24, 2011	Poster Presentation
4. 14 th CRSI National Symposium in Chemistry(CSIR-NIIST, Thiruvananthapuram, India)		February 3-5, 2012	Attendee
6. 8 th J-NOST Conference (IIT Guwahati, Guwahati, India)	Synthesis of alkynyl chalcogenides by Al ₂ O ₃ -Cu(II) catalyzed reaction	December 15-17, 2012	Poster Presentation
7. RSC-India Road Show (IACS, Kolkata, India)		February 5, 2013	Attendee
8. ACS on Campus (IACS, Kolkata, India)		October 12, 2012	Attendee