TEACHER PROFILE/ CV

1. Full name of the faculty member: **Dr. RUPANKAR PAIRA**

2. Designation: **Assistant Professor (Stage-II)**

3. Department: **CHEMISTRY**

4. Specialization (if any): **Organic Chemistry**

5.Contact Information: **12/1 Baguiati 1st Lane, Kolkata-700028**

Email: rupankarpaira@gmail.com

6. Academic qualifications

College/ university	Abbreviation of the Degree
University of Calcutta	B. Sc.
Indian Institute of Technology - Kharagpur	M.Sc.
Jadavpur University	Ph.D

7. Post holding after appointment at this institution

Designation	Department	Duration		Institution
		From	To	
Assistant Professor (Stage-II)	Chemistry	2015	Till date	Maharaja Manindra Chandra College

8. Post held before appointment at this institution

Designation	Department	Duration		Institution
		From	To	
Post-Doctoral Research Fellow	Chemistry	2012	2013	National University of Singapore (Guide: Prof. Chang Young-Tae)

Post-Doctoral Research Fellow	**Chemistry & Biological Chemistry**	**2013**	**2014**	**Nanyang Technological University, Singapore (Guide: Prof. Naohiko Yoshikai)**
Post-Doctoral Research Associate	**Chemistry**	**2014**	**2015**	**Indian Institute of Science Education & Research – Kolkata (Guide: Prof. Swadhin K. Mandal)**

9. Research interests:

a) C-H Activation Chemistry,

b) Phenalenyl Chemistry in C-H functionalization,

c) Bioimaging and Chemosensing,

d) Synthetic Methodology development of Polynuclear Heteroaromatics.

10. Research Project

(a) Completed projects:

I. DST-SERB Young Scientist Scheme (start-up grant), January-2016 (Approved Budget : 25.52 lacs).

II. UGC-Minor Research Project Grant-2017 (Approved Budget : 4.48 lacs)

11. Publications:

(a) Published paper in Journals*: Total 40 publications* (Appended below)

List and details of publications (2009-2023):

1. Sumit Das, Bhagat Singh, Pulak Fadikar, Piyali Deb Barman, **Rupankar Paira*,** *"Application of recyclable base-washed graphene oxide for one-pot conversion of 2-aminopyridines into 5-iodo-imidazo[1,2-a]pyridines at room temperature in water"* ***Results in Chemistry***, 2022, 4, 100323 **(Publication as corresponding author)** (Impact Factor : **2.303**)

2. Bhagat Singh, Jasimuddin Ahmed, **Rupankar Paira*** and **Swadhin K. Mandal***, *"Reduced Phenalenyl in Catalytic Dehalogenative Deuteration and Hydrodehalogenation of Aryl Halides"* **(Publication as corresponding author)** ***The Journal of Organic Chemistry*,** 2021, 86, 7242–7255 (Impact Factor : **4.849**)

3. Bhagat Singh, **Rupankar Paira***, Goutam Biswas, Bikash Kumar Shaw, and **Swadhin K. Mandal***, *"Graphene oxide-phenalenyl composite: transition metal-free recyclable and catalytic C-H functionalization"* **(Publication as corresponding author)** ***Chemical Communications*,** 2018, 54, 13220–13223 (Impact Factor : **6.222**)

4. Ananya Banik, **Rupankar Paira***, Bikash Kumar Shaw, Gonela Vijaykumar, and **Swadhin K. Mandal***, "*Accessing Heterobiaryls through Transition-Metal-Free C–H Functionalization*"**(Publication as corresponding author)** ***The Journal of Organic Chemistry,*** **2018**, 83, 3236-3244. (Impact Factor : **4.849**)

5. **Rupankar Paira**, Bhagat Singh, Pradip Kumar Hota, Jasimuddin Ahmed, Samaresh Chandra Sau, Justin P.Johnpeter and Swadhin K. Mandal, *"Open-Shell Phenalenyl in Transition Metal Free Catalytic C-H Functionalization"* ***The Journal of Organic Chemistry,*****2016**, 81, 2432-2441. (Impact Factor : **4.849**)

6. Wengang Xu, **Rupankar Paira** and Naohiko Yoshikai, *"Ortho C-H Benzylation of Aryl Imines with Benzyl Phosphates under Cobalt-Pyphos Catalysis"* ***Organic Letters***, **2015,** *17*, 4192-4195. (Impact Factor : **6.364**)

7. Ke Gao, **Rupankar Paira** and Naohiko Yoshikai, *"Cobalt-Catalyzed Ortho C–H Alkylation of 2-Arylpyridines via Ring-Opening of Aziridines"*
Advanced Synthesis & Catalysis, **2014,** *356*, 1486 – 1490.(Impact Factor : **5.535**)

8. **Rupankar Paira**, Tarique Anwar, Maitreyee Banerjee, Yogesh P. Bharitkar, ShyamalMondal, SandipKundu, AbhijitHazra, Prakas R Maulik andNirup B. Mondal. *"Copper-Phenanthroline catalysts for regioselective synthesis of Pyrrolo [3',4':3,4]pyrrolo[1,2-a]furoquinolines / Phenanthrolines under mild reaction conditions"*

Bellistein Journal Of Organic Chemistry, **2014**, *10*, 692-700.(Impact Factor : **2.801**).

9. **Paira, Rupankar**;Mondal, Shyamal; Maity, Arindam; Sahu, KrishnenduBikash; Naskar, Subhendu; Saha, Pritam; Hazra, Abhijit; SandipKundu; Banerjee, Sukdeb; Mondal, NirupBikash.*"An easy access to diversely fused dioxa-2-aza-tricyclo[n.3.1.0^{2,n}]tetra/pentadecanes under solvent-free condition*"
Tetrahedron Letters**,** **2011**, *52*, 5516-5520.(Impact Factor : **2.347**)

10. **Rupankar Paira**, ShyamalMondal, ArpanChowdhury, Maitreyee Banerjee, ArindamMaity, AbhijitHazra and Nirup B Mondal. *"Traceless synthetic approach towards oxaza-dicyclopenta[a,h]naphthalenes under solvent-free condition : A Basic Alumina-supported green protocol."*
Tetrahedron Letters, **2013**, 54, 3046-3050. (Impact Factor : **2.347**)

11. **Paira, Rupankar**; Maity, Arindam; Mondal, Shyamal; Naskar, Subhendu; Sahu, KrishnenduBikash; Saha, Pritam; Hazra, Abhijit; E. Padmanaban; Banerjee, Sukdeb; Mondal, NirupBikash. *"Basic alumina supported one-pot synthesis of structurally diverse pyridine/quinolinine-fused novel diazepanium, diazocanium, imidazodilinium and tetrahydro-pyrimidiniums*"
Tetrahedron Letters**,2011**, *52*, 1653-1657. (Impact Factor : **2.347**)

12. **Paira, Rupankar**; Paira, Priyankar; Maity, Arindam; Mondal, Shyamal; Hazra, Abhijit; Sahu, K. B; Naskar, Subhendu; Saha, Pritam; Banerjee, Maitreyee; Mondal, N. B. *"Amberlite IRA 402(OH): An efficient mediator for the exclusive synthesis of fused tricyclic oxa-azaquinolinium salts"*

    (Highlighted in ***Synfacts*****, 2010**, 8, 0960-0960)

    Tetrahedron Letters**, 2010,** *51*, 3200–3204. (Impact Factor : **2.347**)

13. **Paira, Rupankar**; Maity, Arindam; Naskar, Subhendu; Mondal, Shyamal; Paira, Priyankar; Hazra, Abhijit; Sahu, K. B; Saha, Pritam; Banerjee, Sukdeb; Mondal, N. B.; *"Naphtho- and Benzo[g]quinoxalino-fused oxazocinoquinolinones and their diaryl and alkynyl analogues from quinoline-8-ols: A library of novel polynuclearheteroaromatics"*
    Synthesis**, 2010**, *20*, 3520–3535. (Impact Factor : **2.652**)

14. **Paira, Rupankar**; Sahu, Krishnendu B.; Mondal, Shyamal; Maity, Arindam; Hazra, Abhijit; Naskar, Subhendu; Saha, Pritam; Padmanaban, E.; Banerjee, Sukdeb; Mondal, NirupBikash.*"Effective Suzuki-MiyauraArylation and Sonogashira Aryl Alkynylation on N-HeteroaromaticCations: Synthesis of Substituted Pyridine-Fused Cationic Heterocycles"*
    Synthesis**, 2011**, 18, 3006-3014. (Impact Factor : **2.652**).

15. Dey, RamendraSundar; Gupta, Susmita; **Paira, Rupankar**; Raj, C. Retna. *"Electrochemically Derived Redox Molecular Architecture: A Novel Electrochemical Interface for Voltammetric Sensing"*
    ACS Applied Materials & Interfaces, **2010**, *2*, 1355–1360. (Impact Factor : **7.145**)

16. Dey, RamendraSundar; Gupta, Susmita; **Paira, Rupankar**; Chen, Shen-Ming; Raj, C. Retna. *"Flow injection amperometric sensing of uric acid and ascorbic acid using the self assembly of heterocyclic thiol on Au-electrode"*

Journal of Solid State Electrochemistry, **2012**, 16, 173-178. (Impact Factor : **2.327**).

17. Saha, Pritam; Naskar, Subhendu; Paira, Priyankar; Hazra, Abhijit; Sahu, K. B.; **Paira, Rupankar**; Banerjee, Sukdeb; Mondal, N. B. *"Basic alumina-supported highly effective Suzuki-Miyaura cross-coupling reaction under microwave irradiation: Application to fused tricyclic oxa-aza-quinolones"*
Green Chemistry,**2009**; *11*, 931–934. (Impact Factor : **8.506**).

18. Abhijit Hazra, Yogesh P. Bharitkar, Debanjana Chakraborty, Susanta Kumar Mondal, Nupur Singal, Shyamal Mondal, Arindam Maity, **Rupankar Paira**, Sukdeb Banerjee and Nirup B. Mondal. *"Regio- and Stereoselective Synthesis of a Library of Bioactive DispiroOxindolo/AcenaphthoquinoAndrographolides via 1,3-Dipolar Cycloaddition Reaction Under Microwave Irradiation."*
ACS Combinatorial Science, **2013**, 15, 41-48. (Impact Factor : **3.317**)

19. Paira, Priyankar; **Paira, Rupankar**; Hazra, Abhijit; Naskar, Subhendu; Sahu, K. B, Saha, Pritam; Mondal, Shyamal; Maity, Arindam; Banerjee, Sukdeb; Mondal, N. B. *"Facile synthesis of 6,6,8,6,6-ring fused pentacyclicheterocycles: Annelation of quinolines to quinoxalines under PTC condition"*
Tetrahedron letters,**2009**; *50*, 4619–4623. (Impact Factor : **2.347**)

20. Paira, Priyankar; **Paira, Rupankar**; Hazra, Abhijit ; Naskar, Subhendu ; Sahu, K. B, Saha, Pritam; Mondal, Shyamal; Maity, Arindam; Banerjee, Sukdeb; Mondal, N. B. *"Synthesis of biarylpentacyclicquinolonoquinoxalino-oxazocines in aqueous medium using Amberlite IRA 402 (OH)"*
Tetrahedron letters, **2009**; *50*, 5505-5509. (Impact Factor : **2.347**)

21. Mondal, Shyamal; **Paira, Rupankar**; Maity, Arindam; Naskar, Subhendu; Sahu, KrishnenduBikash; Hazra, Abhijit; Saha, Pritam; Banerjee, Sukdeb; Mondal, NirupBikash. *"Basic alumina supported tandem synthesis of bridged polycyclic quinolino/isoquinolino-oxazocines under microwave irradiation"*
***Tetrahedron Letters*,2011**, *52*, 4697-4700. (Impact Factor : **2.397**).

22. Naskar, Subhendu; Paira, Priyankar; **Paira, Rupankar**; Hazra, Abhijit; Sahu, K. B, Saha, Pritam; Mondal, Shyamal; Maity, Arindam; Banerjee, Sukdeb; Mondal, N. B. *"Facile synthesis of bis-indolyl indan-1,3-dione, bis-indolylidine indan-1,3-dione and bis-indolylindenoquinoxaline catalyzed by montmorillonite K-10"*
***Tetrahedron*,2010**, *66*, 5196-5203. (Impact Factor : **2.645**)

23. Naskar, Subhendu; Saha, Pritam; **Paira, Rupankar**; Mondal, Shyamal; Maity, Arindam; Sahu, K. B; Hazra, Abhijit; Paira, Priyankar; Banerjee, Sukdeb; Mondal, N. B. *"Efficient Synthesis of Polycyclic Fused 2-Quinolones by Micellar Phase-Transfer Catalyst (MPTC) in water"*
***Tetrahedron letters*,** 2010, 51, 1437–1440. (Impact Factor : **2.347**)

24. Maity, Arindam; Mondal, Shyamal; **Paira, Rupankar**; Hazra, Abhijit; Naskar, Subhendu; Sahu, KrishnenduBikash; Saha, Pritam; Banerjee, Sukdeb; Mondal, NirupBikash. "*A novel approach for the one-pot synthesis of linear and angular fused quinazolinones*"
***Tetrahedron Letters*,2011**, *52*, 3033-3037. (Impact Factor : **2.347**)

25. ShyamalMondal, ArindamMaity, **RupankarPaira**, Maitreyee Banerjee, Yogesh P. Bharitkar, AbhijitHazra, Sukdeb Banerjee, Nirup B. Mondal. *"Efficient synthesis of novel tetrahydropyrrolo[3',4':3,4]pyrrolo[2,1-a]isoquinoline derivatives via a simple and convenient MCR in aqueous micellar system"*
***Tetrahedron Letters**, **2012**, 53, 6288–6291.* (Impact Factor : **2.347**).

26. Saha, Pritam; Naskar, Subhendu; **Paira, Rupankar**; Mondal, Shyamal; Maity, Arindam; Sahu, K. B.; Paira, Priyankar;Hazra, Abhijit; Banerjee, Sukdeb; Mondal, N. B. "*One pot tandem synthesis of furo[3,2-h]quinolines via Sonogashira cross-coupling reaction supported by basic alumina under microwave irradiation: A green methodology"*
Synthesis, **2010**, *3*, 486–492. (Impact Factor :**2.500**)

27. Paira, Priyankar; Hazra, Abhijit; Kumar, Shrabanti; **Paira, Rupankar**; Sahu, K. B; Naskar, Subhendu; Saha, Pritam ; Mondal, Shyamal; Maity, Arindam; Banerjee, Sukdeb; Mondal, N. B. *"Efficient synthesis of 3,3-diheteroaromatic oxindole analogues and their in vitro evaluation for spermicidal potential"*
Bioorganic & Medicinal Chemistry Letters, **2009**; *19*, 4786–4789. (Impact Factor :**2.338**)

28. Mondal, Shyamal; Maity, Arindam; Naskar, Subhendu; **Paira, Rupankar**;Hazra, Abhijit; Sahu, KrishnenduBikash; Saha, Pritam; Das, Saktipada; Banerjee, Sukdeb; Mondal, NirupBikash. *"Facile synthesis of tricyclic oxazino- or oxazepino-fused tetrahydroquinolines via intramolecular reductive amidation*"
Synthesis **, 2011**, 2079-2084. (Impact Factor :**2.500**)

29. Sahu, K. B; Hazra, Abhijit; Paira, Priyankar; Saha, Pritam; Naskar, Subhendu; **Paira, Rupankar**; Banerjee, Sukdeb; Sahu, N. P.; Mondal, N. B. Luger, Peter; Weber, Manuela. *"Synthesis of novel Benzoxazocinoquinoliniums and quinolones under PTC conditions and their application in Suzuki cross coupling reaction for the construction of polynuclearheteroaromatics"*
Tetrahedron ,**2009**, *65*, 6941–6949. (Impact Factor :**2.803**)

30. Hazra, Abhijit; Paira, Priyankar; Sahu, K. B.; Naskar, Subhendu; Saha, Pritam; **Paira, Rupankar**; Mondal, Shyamal; Maity, Arindam; Banerjee, Sukdeb; Mondal, N. B. *"Chemistry of Andrographolide: Formation of novel di-spiropyrrolidino and di-spiropyrrolizidino-oxindole adducts: One pot three-component [3+2] azomethineylidecycloaddition to andrographolide"*
Tetrahedron Letters**, 2010**, *51*, 1585–1588. (Impact Factor :**2.397**)

31. Abhijit Hazra, Shyamal Mondal, Arindam Maity, Subhendu Naskar, Pritam Saha, **Rupankar Paira**, Krishnendu B. Sahu, Priyankar Paira, Soma Ghosh, Chandrima Sinha, Amalesh Samanta, Sukdeb Banerjee, Nirup B. Mondal. *"AmberliteeIRA-402*

(OH) ion exchange resin mediated synthesis of indolizines, pyrrolo [1,2-a] quinolines and isoquinolines: Antibacterial and antifungal evaluation of the products"
***European Journal of Medicinal Chemistry*, 2011,** *46*, 2132-2140. (Impact Factor :**3.499**)

32. Naskar, Subhendu; Banerjee, Maitreyee; Hazra, Abhijit; Mondal, Shyamal; Maity, Arindam; **Paira, Rupankar**; Sahu, Krishnendu Bikash; Saha, Pritam; Banerjee, Sukdeb; Mondal, Nirup Bikash. *"Novel route for the synthesis of structurally diverse pyrrolo[2,1-a]isoquinoline in aqueous micellar medium"*
Tetrahedron Letters, **2011**, *52*, 1527-1531. (Impact Factor :**2.397**)

33. Yogesh P. Bharitkar, Maitreyee Banerjee, Shrabanti Kumar, **Rupankar Paira**, Ravindra Meda, Ketousetu Kuotsu, Nirup B. Mondal. *"Search for a potent microbicidal spermicide from the isolates of Shorearobustaresin*"
Contraception, **2013**, *88*, 133-140. (Impact Factor :**3.090**)

34. Saha, Pritam; Naskar, Subhendu; Maity, Arindam; Mondal, Shyamal; **Paira, Rupankar**; Hazra, Abhijit; Sahu, Krishnendu B.; Banerjee, Sukdeb; Mondal, Nirup B. *"Palladium-catalyzed 8-exo-trigintramolecular Heck reaction under microwave irradiation in the presence of basic alumina"*
Synthetic Communications, **2012**, *42*, 3166-3176. (Impact Factor :**1.060**)

35. Sahu, Krishnendu Bikash; Maity, Arindam; Mondal, Shyamal; **Paira, Rupankar**; Saha, Pritam; Naskar, Subhendu; Hazra, Abhijit; Banerjee, Sukdeb; Mondal, Nirup Bikash. *"Basic Alumina-Supported Synthesis of Aryl-Heteroarylmethanesvia Palladium-Catalyzed Cross-Coupling under Microwave Irradiation"*
Journal of Heterocyclic Chemistry, **2013**, *50*, 148-155. (Impact Factor :**1.224**)

36. Sahu, Krishnendu B.; Ghosh, Soma; Banerjee, Maitreyee; Maity, Arindam; Mondal, Shyamal; **Paira, Rupankar**; Saha, Pritam; Naskar, Subhendu; Hazra, Abhijit;

Banerjee, Sukdeb; Samanta, Amalesh; Mondal, NirupBikash. *"Synthesis and in vitro study of antibacterial, antifungal activities of some novel bisquinolines"* ***Medicinal Chemistry Research***, 2013, 22, 94-104. (Impact Factor :**1.612**)

37. Sahu, Krishnendu B.; Banerjee, Maitreyee; Ghosh, Soma; Maity, Arindam; Mondal, Shyamal; **Paira, Rupankar**; Hazra, Abhijit; Karmakar, Sanmoy; Samanta, Amalesh; Mondal, Nirup Bikash. *"I_2 catalyzed Friedel–Crafts alkylation reaction of substituted anilines with ninhydrin: formation of novel products and their antimicrobial evaluation"* ***Medicinal Chemistry Research***, **2013**, *22*, 2023-2037. (Impact Factor :**1.612**)

38. Maitreyee Banerjee, Shrabanti Kumar, Soma Ghosh, **Rupankar Paira,** Shyamal Mondal, Sanmoy Karmokar, Debprsad Chattopadhyay, Rupak K. Bhadra, Nirup B. Mondal. *"Amberlite IRA 402(OH)-mediated synthesis and evaluation of fused tricyclic quinolinium salts as potent non-detergent type microbicidal spermicides"* ***Medicinal Chemistry Research***, **2014**, *23*, 1488–1500. (Impact Factor :**1.612**)

39. Banerjee, Maitreyee; Kumar, Shrabanti; Maity, **Paira, Rupankar**; Ghosh Soma; Karmokar, Sanmoy; Mondal, N. B. *"Synthesis and Characterization of Furo[3,2-h]Quinoliniums as Potent Non-Detergent Spermicides"* ***Letters in Drug Design and Discovery***,**2014**, *11*, 104-113. (Impact Factor :**0.845**)

40. Naskar, Subhendu; Saha Pritam; **Paira Rupankar**; Paira, Priyankar**;** Hazra, Abhijit; Sahu, Krishnendu.B.; Banerjee, Sukdeb.; Mondal, N.B. *"Aqueous phase supramoleculer synthesis of 3,3 and 3,2-diheteroaromatic oxindoles catalyzed by β-cyclodextrin"* ***Journal of Chemical Research***, **2009**, *3*, 174-177.

(b) Conference/ seminar volumes:

I. Poster presented at International Symposium on "Facts of Chemistry in Biology" (FOCB-II, 2017), organized by St. Xavier's College, Kolkata.

II. Poster presented atInternational conference on "current trends in materials science and engineering" (CTMSE-2018), jointly organized by IEM, Kolkata and SNBNCBS, Kolkata.