



CURRICULUM VITAE

Name:	Rafique Ul Islam	Photo
Designation:	Professor	
School:	School of Physical Sciences	
Department:	Chemistry	
Specialisation & Research Interests:	Organic Chemistry, Research interest: Nanomaterials and catalysis, Organic Synthesis	
Email IDs (Official & Personal)	rafique@mgcub.ac.in ; rafiqueisl@gmail.com	
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2. ACADEMIC QUALIFICATION (in reverse Chronological order):

Degree	Year	University / Board
Ph.D. (Chemistry)	2007	University of Kalyani, West Bengal, India
M.Sc. (Chemistry)	2001	Gauhati University, Assam
B.Sc.(10+2+3)	1999	Gauhati University, Assam
H.S.S.L.C (10+2)	1996	AHSEC, Assam
H.S.L.C. (10 th)	1993	SEBA, Assam

3. ANY OTHER QUALIFICATION:

Degree: Ph.D. (Chemistry); **University:** University of Kalyani, Kalyani, India

Date of Award of Degree: 12-Feb 2007

Title of the Thesis: "Synthesis of 1,8-naphthyridinone-annulated heterocycles and reaction mechanism"

4. PROFESSIONAL EXPERIENCE:

Organisation/Institute/University	Position Held	Duration
Mahatma Gandhi Central University, Motihari, Bihar	Professor	14.11-2019- continuing
Mahatma Gandhi Central University, Motihari, Bihar	Associate Professor	14.11-2016- 13.11.2019
Birla institute of Technology (BIT) Mesra, Ranchi, India	Assistant Professor	07 (Seven) years 2 months
University of the Witwatersrand, Johannesburg, South Africa	Postdoctoral research	01 (one) year 08 months

5. ADMINISTRATIVE ASSIGNMENTS:

Position Held	Duration	Nature of Work
Centre Superintendent, End Semester Examination	25 th February to 04 th March 2017	To conduct the End Semester Examination at MGCU
Member, Anti-Ragging Committee	19th January 2017-	Ragging related issues in the University.
Centre Superintendent, End Semester Examination	20 th December to 28 th December 2017	To conduct the End Semester Examination
Member , School board of School of Life Sciences	October 2017	To recommend the curricula and syllabi of various courses offered by the different department in the School.
Member, Board of studies, Dept. of Chemistry, MGCU	October 2017	To recommend the curricula and syllabi of various courses offered by the department.
Member, Board of studies, Department of Physics, MGCU	October 2017	To recommend the curricula and syllabi of various courses offered by the department.
Member, Board of studies, Department of Biotech, MGCU	October 2017	To recommend the curricula and syllabi of various courses offered by the department.
Provost, Halls of Residence, MGCU, Motihari, Bihar	October 2018-	To ensure the maintenance of discipline, health, hygiene, food, sanitation and cleanliness of the Halls of Residence.
Member, Internal Quality Assurance Cell, MGCU	April 2019	To promote and improve academic & administrative performance and quality and environment of the university.
Member, Academic Monitoring Committee, MGCU	April 2018	Various academic related activities of the University.
Member, SC/ST Cell, MGCU	November 2018-	To promote the special interests of

		students in the reserved categories.
Member, Equal Opportunity Cell, MGCU	December 2017-	To promote and provide platform to enhance skill and ability of the weaker section of the students as well as any other teaching and non-teaching staff.
Member, Internal Complaint Committee, MGCU	August 2018- December 2019	Gender sensitization against Sexual harassment
Member, Document Verification Committee, MGCU	January 2019-	Verification of documents of newly admitted students in various courses.
Member of Selection Committee as a capacity of Minority Representative, MGCU, Motihari, Bihar,	January 2019	Selection of Assistant Professor (Contractual) in Dept. of English and Assistant Professor (Contractual) in Dept. of Interventional Development & Social Work.
Centre Superintendent, MGCU Entrance Examination	July 2019	To conduct the entrance Examination at MGCU for the admission in UG/PG/M.Phil and PhD.

6. COURSES TAUGHT:

Semester-II: For All undergraduate Courses: SWRK 3001: Environmental Studies

Semester I/II/III/IV: Generic Elective: All branches of Science

CHEM 3033: Atomic structure, Bonding & General Organic Chemistry (GE)

CHEM 3034: Thermodynamics, Equilibria & Functional Organic Chemistry I (GE)

For BSc Chemistry (Honours):

CHEM3005: Inorganic chemistry-II (Core)

CHEM3006: Organic Chemistry-II (Core)

CHEM3007: Physical Chemistry-III (Core)

CHEM 3032: Fuel Chemistry (SEC)

CHEM 3020: Polymer Chemistry (DSE)

7. RESEARCH SUPERVISION:

A. Ph.D.:

- i. Awarded :
- ii. Submitted :
- iii. Ongoing : 01

B. M.Phil.:

- i. Awarded :
- ii. Submitted :
- iii. Ongoing :

C. Non-Degree Oriented (Master's Level Dissertation):

- i. Awarded :
- ii. Submitted :
- iii. Ongoing :

8. CONTRIBUTION TO CORPORATE LIFE OF THE UNIVERSITY:

- i. **Coordinator**, Stage Management Committee-NAVANKUR, 1st University Foundation Week, 29th January to 03rd February 2017
- ii. **Convener**, Publicity and Stage Committee, Champaran Satyagraha Centenary Celebrations, April 2017
- iii. **Co-Convener**, the Cultural Committee, 2nd University Foundation Week, February, 2018
- iv. **Convener**, the Cultural Committee, 3rd University Foundation Day, MGCU February, 2019
- v. **Co-Chairman**, National Symposium 2019 organized by Dept. of Chemistry, MGCU, Motihari, Bihar on Recent Trends in Chemical Sciences (RTCS-2019) on 1st March 2019.
- vi. Nodal officer, Ek Bharat Shreshtha Bharat Committee-MGCUB

9. MEMBERSHIP OF SOCIETIES / PROFESSIONAL BODIES:

Life member: Indian Society of Chemists & Biologists, India

10. PUBLICATIONS:**A. BOOKS/MONOGRAPHS:****1. Authored:**

- i.
- ii.
- iii.

2. Edited:

- i. Book Chapter: Palladium-polymer' functional nanocomposite: Discussion of catalytic performance; **Progress in Nanoparticles Research, Nova Science Publishers (2008), ISBN: 978-1-60456-705-2 ; pp 175-204**; Kaushik Mallick, **Rafique Ul Islam**, Michael J Witcomb, Mike S Scurrall
- ii. Book Chapter: "Gold nanoparticles in organic system: Applications in Catalysis, Sensors and Electronics" **Nanocomposites: Preparation, Properties and Performance, Nova Science Publishers (2008) ISBN: 978-1-60456-798-4, pp.165-186**; Kaushik Mallick, **Rafique Ul Islam**, Michael J Witcomb.

B. PAPERS IN REFEREED/PEER REVIEWED JOURNALS:

- i. Photocatalytic degradation of *Rhodamine B* under UV irradiation using *Shorea robusta* leaf extract mediated bio-synthesized silver nanoparticles Wasim Akram Shaikh, Sukalyan Chakraborty, Rafique Ul Islam, **Communicated, 2019; International Journal of Environmental Science and Technology Accepted (On web on 13th July 2019) (Impact factor: 2.031): ISSN: 1735-2630**

- ii. Free-radical induced triazole formation under UV-irradiation: A hydrogen atom transfer (HAT) mechanism; D. Nandi, N. Devi, A. Taher, **Rafique Ul Islam**, and K. Mallick, *Applied Organometallic Chemistry* 2019, 33 (4), e4733., **(Impact factor: 3.518); Publisher: Wiley; ISSN: 1099-0739**
- iii. UV-assisted photo-catalytic degradation of anionic dye (Congo red) using bio-synthesized Silver nanoparticles: A green catalysis, W. A. Shaikh, S. Chakraborty, Rafique Ul Islam, **Desalination and Water Treatment**, 2018, 130, 232–242, (October 2018) **(Impact factor: 1.65); ISSN : 1944-3994**
- iv. Palladium nanoparticle catalyzed *aryl-amine* coupling reaction: High performance of aryl and pyridyl chlorides as the coupling partner; D. Nandi, **Rafique Ul Islam**, N. Devi, S. Siwal, K. Mallick; **New Journal Of Chemistry**, (On Web: 1st December 2017), 2018, 42, 812-816; DOI: 10.1039/c7nj03447d; **(Impact factor: 3.27); Publisher: RSC; ISSN : 1144-0546**
- v. Polymer-supported Cu-nanoparticle as an efficient and recyclable catalyst for oxidative homocoupling of terminal alkynes; S. T. Aziz, **Rafique Ul Islam**, *Catalysis Letters*, (on Web: 10th November 2017) 2018, 148, 205-213; DOI 10.1007/s10562-017-2237-8; **(Impact factor: 2.9); Publisher: Springer; ISSN: 1572-879X.**
- vi. Carbon Nitride Supported Copper Nanoparticles: Light Induced Electronic Effect of the Support for Triazole Synthesis; D. Nandi, A. Taher, **Rafique Ul Islam**, M. Choudhary, S. Siwal, K. Mallick; **Royal Society Open Science**, 2016, 3, 160580; (on Web: 16th November 2016) DOI: 10.1098/rsos.160580; **(Impact factor: 2.243); Publisher: Royal Society; ISSN:2054-5703.**

Publications before joining MGCU, Motihari, Bihar

- vii. Light effect on Click reaction: Role of photonic quantum dot catalyst; D. Nandi, A. Taher, **Rafique Ul Islam**, M. Choudhary, S. Siwal, K. Mallick; **Scientific Reports**, 2016, 6, 33025. doi:10.1038/srep33025; **(Impact factor: 4.259); Publisher: Nature Publishing Group; ISSN 2045-2322**
- viii. Microwave assisted azide-alkyne cycloaddition reaction using polymer supported Cu(I) as a catalytic species: A solvent less approach, A. Taher, D. Nandi, **Rafique Ul Islam**, M. Choudhary, K. Mallick, **RSC Advances**, 2015, 5, 47275-47283. **(Impact factor: 3.84); Publisher: RSC; ISSN 2046-2069**
- ix. Polymer immobilized Cu(I) formation and azide-alkyne cycloaddition: A one pot reaction; **Rafique Ul Islam**, Abu Taher, Meenakshi Choudhary, Samarjeet Siwal and Kaushik Mallick, **Scientific Reports**, 2015, . DOI: 10.1038/srep09632 ; **(Impact factor: 5.58); Publisher: Nature Publishing Group; ISSN 2045-2322**
- x. Polymer supported Cu(I) catalyst for 'click reaction' in aqueous media; **Rafique Ul Islam**, A. Taher, M. Choudhary, M. J. Witcomb, K. Mallick, **Dalton Transactions**, 2015, 44, 1341–1349. DOI: 10.1039/C4DT02962C; **(Impact factor: 4.097); Publisher: RSC; ISSN 1477-9226**

- xi. Stealth lipoplex decorated with triazole-tethered galactosyl moieties: a strong hepatotropic gene vector; D. Govender, **Rafique Ul Islam**, C. B. De Koning, W. A. L. van Otterlo, P. Arbuthnot, M. Ariatti, M. Singh; **Biotechnology Letters**, 2015, 37, 567-575, DOI 10.1007/s10529-014-1729-5 (Impact Factor: 1.85); Publisher: Springer ; ISSN: 1573-6776
- xii. Polymer stabilized silver nanoparticle: An efficient catalyst for proton-coupled electron transfer reaction and the electrochemical recognition of biomolecule, M. Choudhary, S. Siwal, **Rafique Ul Islam**, M. Witcomb, K. Mallick, **Chemical Physics Letters**, 2014, 608, 145-151 DOI: 10.1016/j.cplett.2014.05.101; (Impact factor: 1.991); Publisher: Elsevier; ISSN: 0009-2614
- xiii. *In-situ* generation of a high-performance Pd-polypyrrole composite with multifunctional catalytic properties M. Choudhary, **Rafique Ul Islam**, M. J Witcomb, Kaushik Mallick, **Dalton Transaction**, 2014, 43, 6396-6405. DOI: 10.1039/C3DT53567C; (Impact factor: 4.097); Publisher: RSC; ISSN 1477-9226
- xiv. Single step bottom-up approach for the synthesis of polymer stabilized palladium nanoparticles for chemoselective transfer hydrogenation of α,β -unsaturated carbonyls, S. K. Mahato, **Rafique Ul Islam**, C. Acharya, M. J. Witcomb, K. Mallick, **Chemcatchem**, 2014, 6, 1419-1426; DOI: 10.1002/cctc.201300985 (Impact factor: 5.181); Publisher: Wiley; ISSN: 1867-3899
- xv. **Review article:** Recent Progress in Metal Assisted Multicomponent Syntheses of Heterocycles, P. K. Maji, **Rafique Ul Islam**, S. K. Bera, **Heterocycles** 2014, 89, 869-962; DOI: 10.3987/REV-13-781 (Impact factor: 1.077); Publisher: Japan chemical society; ISSN: 1881-0942
- xvi. "Polymerization Assisted Reduction Reaction: A Sequential Electron-Proton-Transfer (EPT) Reaction Catalyzed by Gold Nanoparticle" M. Choudhary, S. Shukla, **Rafique Ul Islam**, M. Witcomb, C. Holzapfel, K. Mallick, **Journal of Physical Chemistry C**, 2013, 117, 23009-23016; DOI: 10.1021/jp408456c; (Impact factor: 4.814); Publisher: ACS; ISSN: 1932-7455
- xvii. Template-less synthesis of polymer hollow spheres: An efficient catalyst for Suzuki coupling reaction; M. Choudhary, **Rafique Ul Islam**, M. J Witcomb, M. Phali, K. Mallick, **Applied Organometallic Chemistry**. 2013, 27, 523-528. DOI: 10.1002/aoc.3024, (Impact factor: 2.011); Publisher: Wiley; ISSN: 1099-0739
- xviii. Palladium-poly-(3-aminoquinoline) hollow-sphere composite: Application in Sonogashira coupling reactions **Rafique Ul Islam**, S. K. Mahato, S. K. Shukla, M. J. Witcomb, K. Mallick, **ChemCatChem**, 2013, 5, 2453-2461. DOI: 10.1002/cctc.201300131; (Impact factor: 5.181); Publisher: Wiley; ISSN: 1867-3899
- xix. Enhancement of transfection activity in HEK293 cells by lipoplexes containing cholesteryl nitrogen-pivoted aza-crown ethers; A. Sewbalas, **Rafique Ul Islam**, W. A.L. van Otterlo, C. B. de Koning, M. Singh, P. Arbuthnot, M. Ariatti, **Medicinal Chemistry Research**, 2013, 22, 2561-

2569. (On Web-September 2012) DOI: 10.1007/s00044-012-0252-2, (Impact factor: 1.612) Publisher: Springer; ISSN: 1554-8120
- xx. Metal-polymer Hybrid Material as a Catalyst for the Heck Coupling Reaction Under Phosphine Free Conditions, **Rafique Ul Islam**, M. J. Witcomb, M. S. Scurrill, W. Van Otterlo, E. van der Lingen, K. Mallick, **Synthetic Communications**, 2011, 41, 3561-3572 DOI:10.1080/00397911.2010.519202, (Impact factor: 1.06); Publisher: Taylor and Francis; ISSN: 1532-2432
- xxi. Conjugated polymer stabilized palladium nanoparticles as a versatile catalyst for Suzuki cross-coupling reactions for both aryl and heteroaryl bromide systems, **Rafique Ul Islam**, M. J. Witcomb, E. van der Lingen, M. S. Scurrill, W. Van Otterlo, K. Mallick, **Catalysis Science & Technology**, 2011, 1, 308-315 DOI: 10.1039/C0CY00071J, (Impact factor: 3.753); Publisher: RSC; ISSN 2044-4753
- xxii. In-situ synthesis of palladium-polyaniline hybrid catalyst for Suzuki coupling reaction, **Rafique Ul Islam**, M. J. Witcomb, E. van der Lingen, M. S. Scurrill, W. Van Otterlo, K. Mallick, **Journal of Organometallic Chemistry**, 2011, 696, 2206-221. DOI: 10.1016/j.jorganchem.2010.11.039, (Impact factor: 2.00); Publisher: Science Direct; ISSN: 0022-328X
- xxiii. *In situ* synthesis of a Pd-poly(1,8-diaminonaphthalene) nanocomposite: An efficient catalyst for Heck reactions under phosphine-free conditions, **Rafique U. Islam**, M. J. Witcomb, M. S. Scurrill, W. Van Otterlo, K. Mallick, **Catalysis Communication** 2010, 12, 116-121. DOI: 10.1016/j.catcom.2010.08.005, (Impact factor: 2.915); Publisher: Science Direct; ISSN: 1566-7367
- xxiv. The synthesis of substituted piperazine cholesterol conjugates for use as components of nucleic acid transfection lipoplexes, **Rafique Ul Islam**, M. M. Johnson, R. Mohammed, J. Hean, P. Arbuthnot, C. B. De Koning, W. A. L. Van Otterlo, **S. Afr. J. Chem.**, 2010, 63, 88-94, (Impact factor: 0.455); Publisher: SACH; ISSN: 0379-4350
- xxv. Inhibition of hepatitis B virus replication in vivo using lipoplexes containing altitol-modified antiviral siRNAs, Justin Hean, Carol Crowther, A. Ely, **Rafique Ul Islam**, S. Barichiev, K. Bloom, M. S. Weinberg, W. van Otterlo, C. de Koning, F. Salazar, P. Marion, E. Roesch, M. LeMaitre, P. Herdewijn, P. Arbuthnot, **Artificial DNA: PNA & XNA**, 2010, 1, 1-10. DOI:10.4161/adna.1.1.11981; Publisher: lands Bioscience; ISSN: 1949-0968
- xxvi. Catalytic Activity of Metal Nanoparticles Supported on Nitrogen-Doped Carbon Spheres, A. A. Deshmukh, **Rafique Ul Islam**, M. J. Witcomb, W. A. L. van Otterlo, N. J. Coville, **ChemCatChem**, 2010, 2, 51-54, DOI: 10.1002/cctc.200900224, (Impact factor: 5.181); Publisher: Wiley; ISSN: 1867-3899
- xxvii. **Review Article:** Synthesis of Five- and Six-membered Heterocyclic Compounds by the Application of Metathesis Reactions, K. C. Majumdar, S. Muhuri, **Rafique Ul Islam**, B. Chattopadhyay, **Heterocycles**, 2009, 78,

- 1109-69. DOI:10.3987/REV-08-646, (Impact factor: 1.077); Publisher: Japan; ISSN: 1881-0942
- xxviii. Efficient Nucleic Acid transduction with lipoplexes containing novel piperazine- and polyamine-conjugated cholesterol derivatives, Rafique Ul Islam, J. Hean, W. van Otterlo, C. de Koning, P. Arbuthnot, **Bioorganic and Medicinal Chemistry Letters**, 2009, 19, 100-3. DOI: 10.1016/j.bmcl.2008.11.009, (Impact factor: 2.338); Publisher: Science Direct; ISSN: 0960-894X
- xxix. Ring closing metathesis for the synthesis of 9- and 10-membered silicon-containing benzo-fused heterocycles, S. Scalzullo, Rafique Ul Islam, G. L. Morgans, J. P. Michael, W. A. L. van Otterlo **Tetrahedron Letters**, 2008, 49, 7403-05. DOI: 10.1016/j.tetlet.2008.10.067, (Impact factor: 2.397); Publisher: Science Direct; ISSN: 0040-4039
- xxx. Formation of metal nanoparticles in a polymer nanofiber: a hybrid material for gas-phase catalytic reactions, T. Maphala, K. Mondal, M. Witcomb, M. Scurrrell, Rafique Ul Islam, K. Mallick, **Smart Materials and Structure**, 2008, 17, 045013. DOI:10.1088/0964-1726/17/4/045013, (Impact factor: 2.024); Publisher: IOP; ISSN: 1361-665X
- xxxi. Regioselective Synthesis of 1,8-Naphthyridinone-annulated Oxygen and Sulfur Heterocycles by tri-*n*-butyl tinhydride Mediated Aryl Radical Cyclization, K. C. Majumdar, Rafique Ul Islam, **Synthetic Communication**, 2008, 38, 4053 - 67. DOI:10.1080/00397910802238759, (Impact factor: 1.06); Publisher: Taylor and Franchis; ISSN: 1532-2432
- xxxii. Regioselective synthesis of indole-annulated sulfur heterocycles by tri-*n*-butyltin hydride-mediated aryl radical cyclization, K. C. Majumdar, P. Debnath, S. Alam, Rafique Ul Islam, **Journal of Sulfur Chemistry**, 2008, 29(5), 467-74. DOI:10.1080/17415990802105788, (Impact factor: 1.101); Publisher: Taylor and Franchis; ISSN: 1741-6000
- xxxiii. Aluminium Chloride Catalyzed Claisen Rearrangement: Synthesis of Polyheterocycles containing Oxygen, Nitrogen and Sulfur, K. C. Majumdar, Rafique-ul-Islam, S. Alam, **Synthetic Communications**, 2008, 38, 754-66. DOI:10.1080/00397910701820418, (Impact factor: 1.06); Publisher: Taylor and Franchis; ISSN: 1532-2432
- xxxiv. Regioselective Synthesis of Pentacyclic Polyheterocycles: Sequential [3,3]-Sigmatropic Rearrangement of 4-(4'-aryloxybut-2'-ynyloxy)-1-phenyl-1,8-naphthyridin-2(1*H*)-ones, K. C. Majumdar and Rafique-ul-Islam, **Journal of Heterocyclic Chemistry**, 2007, 871-876. DOI: 10.1002/jhet.5570440420, (Impact factor: 1.224); Publisher: Wiley; ISSN: 1943-5193
- xxxv. Chemoselective Synthesis of Thieno[3,2-*c*][1,8]naphthyridin-4(5*H*)-ones By Tandem Cyclization, K. C. Majumdar, Rafique-ul-Islam, **Heteroatom Chemistry**, 2007, 18(1), 87. DOI: 10.1002/hc.20234, (Impact factor: 1.577); Publisher: Wiley; ISSN: 1098-1071
- xxxvi. Regioselective synthesis of biologically interesting pentacyclic polyheterocycles by thio-Claisen and AlCl₃ catalyzed oxy-Claisen rearrangement of 4-(4'-aryloxybut-2'-ynylthio)-1-phenyl-1,8-

- naphthyridin-2(1*H*)-one, K. C. Majumdar, **Rafique-ul-Islam**, **Canadian Journal of Chemistry**, **2006**, *84*(12), 1632-1639. DOI: 10.1139/v06-174, (Impact factor: 0.964); Publisher: NRC; ISSN: 1480-3291
- xxxvii. Synthesis of thiepin-annulated pyrone and coumarin heterocycles by Grubbs' second generation catalyst mediated enyne metathesis, K. C. Majumdar, S. Muhuri, H. Rahaman, **Rafique-ul-Islam**, B. Roy, **Chemistry Letters**, **2006**, *35*(12), 1430-1431. DOI: 10.1246/cl.2006.1430, (Impact factor: 1.594); Publisher: Japan; ISSN: 1348-0715
- xxxviii. Synthesis of spiro-pyridopyridine analogues by Grubbs' catalyst mediated alkene and enyne metathesis reaction, K. C. Majumdar, **Rafique-ul-Islam**, H. Rahaman, B. Roy, **Organic and Biomolecular Chemistry**, **2006**, *4*(12), 2393-2398. DOI: 10.1039/b603125k, (Impact factor: 3.568); Publisher: RSC; ISSN 1477-0520
- xxxix. Tandem Claisen rearrangement and ruthenium catalyzed enyne bond reorganization as a route to the synthesis of tricyclic 1,8-naphthyridinones, K. C. Majumdar, H. Rahaman, **Rafique-ul-Islam**, B. Roy, **Tetrahedron Letters**, **2006**, *47*, 2111-2113. DOI: 10.1016/j.tetlet.2006.01.132, (Impact factor: 2.397); Publisher: Science Direct; ISSN: 0040-4039

C. PAPERS IN CONFERENCES PROCEEDINGS:

- i.
- ii.
- iii.

11. Patents/Copyrights /IPR (If Any)

12. INVITED TALKS:

- i. Invited talk at UNISA's BRICS International Symposium on Energy, Materials and innovation organized by University of South Africa, Pretoria, South Africa on **March 13-15, 2013**; **Title:** Cu-polyaniline nanocomposite: An efficient and recyclable catalyst for 1,3-dipolar cycloaddition reaction of organic azides and terminal alkynes
- ii. Invited Talk at "Recent trends in Chemical Science and Technology" **RTCST-2012** organized by Indian Institute of Technology, IIT Patna, India on **3-4 March 2012**; **Title:** Synthesis of polymer supported metal nanocomposites and its application in Carbon-carbon bond formation

13. RESEARCH PROJECTS (COMPLETED / ONGOING):

Project Title: Synthesis, characterization and catalytic application of supported metal nanoparticles in carbon-carbon bond formation;

Funded By: SERB-DST, New Delhi, INDIA;

SERB-DST Reference No: SB/FT/CS-151/2014 dated 18.07.2015;

Sanctioned Amount: Rs. 28.06 Lakhs;

Duration -3 years (September 2015- August 2018) Completed on August 2018.

14. PARTICIPATION& PRESENTATIONS IN SEMINARS/SYMPOSIA/WORKSHOPS/CONFERENCES:

- i.** Poster presentation on National symposium on chemistry at the inorganic and organic interphase, Organized by The Department of Chemistry, Indian Institute of Technology at Guwahati, India held on December 06-07, **2004.**; **Title:** Regioselective synthesis of biologically interesting pentacyclic polyheterocycles by thio-Claisen and $AlCl_3$ catalyzed oxy-Claisen rearrangement of 4-(4'-aryloxybut-2'-ynylthio)-1-phenyl-1,8-naphthyridin-2(1*H*)-one.
- ii.** Poster presentation on National Symposium on Advances in Chemistry and Environmental Impact (**ACE 2006**) organized by Department of Chemistry, North-Eastern Hill University (NEHU), Shillong-793 022, India on November 2-3, **2006.**; **Title:** Synthesis of thiepin-annulated pyrone and coumarin heterocycles by Grubbs' second generation catalyst mediated enyne metathesis.
- iii.** Poster presentation on Bi-national (South Africa and Germany) Organic Chemistry Conference (**BOCC-08**) at Kruger Park, South Africa on **14-19th September, 2008;** **Title:** Synthesis of novel cholesterol based-cationic lipids: potential gene delivery vehicles.

15. AWARDS, FELLOWSHIPS & OTHER DISTINCTIONS:

- i. 2015-18: Award of Start-UP Research Grant, Young Scientist from SERB-DST, India (SB/FT/CS-151/2014 Dated 18.08.2015) 'Synthesis, Characterization and catalytic application of supported metal nanoparticles in Carbon-Carbon bond formation' Duration of project: 1st September 2015 tp 31st August 2018) 3 years; Sanctioned Amount: 28.06 Lacs**
- ii. 2012-13:** Award of Postdoctoral Research Fellowship from the University of Johannesburg, Johannesburg, South Africa
- iii. 2009:** Award of Postdoctoral Fellowship from North-West University, Potchefstroom, South Africa (Not Availed)
- iv. 2009:** Award of Postdoctoral Fellowship from Kyungpook National University (KNU), Republic of Korea from KRF (Korea Research Fund) and Ministry of Education, Science and Technology of Korean Government
- v. 2008:** Award of Postdoctoral Fellowship from National Poliomyelitis Research Foundation, South Africa
- vi. 2007:** Award of University Postdoctoral Fellowship from the University of the Witwatersrand, Johannesburg, South Africa.
- vii. 2005-07:** Awarded the Senior Research Fellowship (SRF) from the Council of Scientific and Industrial Research (CSIR), New Delhi Government of India.

viii. 2003-05: Awarded the National Fellowship from Council of Scientific and Industrial Research (NET-CSIR June 2002), New Delhi, Government of India; **CSIR-UGC NET Exam: Roll No. 106079 held on dated 23-06-2002 (Qualified CSIR NET)**

16. ANY OTHER SIGNIFICANT INFORMATION:

(Prof. Rafique Ul Islam)