




Bharathiar University

State University | "A++" Grade by NAAC | 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr N DHARMARAJ Professor Department of Chemistry Bharathiar University Tamil Nadu E-mail: dharmaraj@buc.edu.in Phone: 9442007585 Office Number:	
Research Area <ul style="list-style-type: none">• Bio-inorganic and Co-ordination Chemistry• Catalysis (Heterogeneous & Homogeneous)• Nanomaterials• Spectroscopy	Courses Teaching <ul style="list-style-type: none">• POST-GRADUATE COURSE IN CHEMISTRY
Research Experience: 25	Teaching Experience: 25
Research Credentials (as on August 2024 – Source: Google scholar) H-index: 38 Citations: 5925 i10-index: 68	
Publications International Journals: 61	
Career Other Institutes 1. Designation : Lecturer Institution Name : Tamilnadu Government Collegiate Educational Service Period : October 1998 - July 2007 At Bharathiar University 1. Designation : Professor Period : July 2013 - Till Date 2. Designation : Associate Professor Period : July 2010 - July 2013 3. Designation : Reader Period : July 2007 - July 2010	
Education Ph. D. Subject : Chemistry Institution : Department of Chemistry Affiliated University : Bharathiar University Year of Award :	
Projects National Level Ongoing - completed - 1	Research Guidance Completed Ph.D. - 9 On Going Ph.D. - 2



Visits

1. Post-doctoral researcher (2004-05-26 - 2003-06-25)
2. Brain Pool Visiting Professor (2005-01-12 - 2005-12-22)
3. International Conference presentation (2005-08-25 - 2005-08-27)
4. International Conference presentation (2005-11-24 - 2005-11-26)
5. Invited Lecture in International Conference (2012-10-25 - 2012-10-27)

Collaborations

1. INSA-Exchange Scientist (2009-09-01 - 2009-09-30)

Selected Publications

1. Benzothiazole-based Schiff base for sensing Ca²⁺ ions: Synthesis, DFT studies, toxicity evaluation in

Zebrafish embryo and in silico analysis of MMP-9 inhibition

Journal of Photochemistry & Photobiology: A Chemistry (August 2024)

G. Sathiyaraj M. Akilesh , A. Vignesh, K. Naveen Kumar, S. Gopinath S. Mohanapriya , J.M. Malecki, K. Kadirvelu , R. Shankar N. Dharmaraj

2. Investigation on chloro-bridged binuclear copper(II) complexes as potent metallodrug candidates against colon

cancer via chemical and biological assessments

New Journal of Chemistry Volume 48 (March 2024)

Neethu Sankar, Badhmapriya Devarajan, Akilesh Manimuthu, Bhuvanesh Nattamai S. P., Dharmaraj Nallasamy and Kaveri M.V.

3. Arylation of N-methyl-2-oxindole with arylboronic acids in water catalyzed by Pd(II) pincer complex with low

catalyst loading (Journal cover page article).

ChemCatChem, 9, 910 (2017). (Journal cover page article). (June 2017)

A. Vignesh, Werner Kaminsky and N. Dharmaraj,

4. Conversion of Arylboronic Acids to Tetrazoles Catalyzed by ONO Pincer-Type Palladium Complex

The Journal of Organic Chemistry DOI: 10.1021/acs.joc.6b02277J. Org. Chem. 2017, 82, 887-892 (November 2016)

Arumugam Vignesh, N.S.P. Bhuvanesh and N. Dharmaraj

5. Expedient assembly of fluorenones through domino reactions of benzoyl chlorides with arylboronic acids

catalyzed by ONO pincer like palladium(II) complexes.

ChemCatChem, 8, 3207 (2016) (October 2016)

A.Vignesh, Werner K. and N. Dharmaraj,

6. Pd(II) pincer type complex catalyzed tandem C-H and N-H activation of acetanilide in aqueous media: a

concise access to functionalized carbazoles in a single step

Green Chemistry 18, 3295 (2016). (April 2016)

A. Vignesh, Werner Kaminsky and N. Dharmaraj

7. Binuclear copper complexes: Synthesis, X-ray structure and interaction study with nucleotide/protein by in

vitro biochemical and electrochemical analysis

European Journal of Medicinal Chemistry 78, 281 (2014) (May 2014)

M. Alagesan, N. S. P. Bhuvanesh and N. Dharmaraj,



8. Organometallic ruthenium(II) complexes: Synthesis, structure and influence of substitution at azomethine carbon towards DNA/BSA binding, radical scavenging and cytotoxicity

European Journal of Medicinal Chemistry 55, 420 (2012). (July 2012)

P. Sathyadevi, P. Krishnamoorthy, N.S.P. Bhuvanesh, P. Kalaiselvi, V. Vijaya Padma and N. Dharmaraj

9. Variation in the biomolecular interactions of nickel(ii) hydrazone complexes upon tuning the hydrazide fragment

Dalton TransactionsDalton Trans., 2012,41, 6842-6854 (April 2012)

P.Krishnamoorthy, P. Sathyadevi, Rachel R. Butorac Alan H. Cowley Nattamai S. P. Bhuvanesh and Nallasamy Dharmaraj

10. Synthesis and characterization of hydroxyapatite using carbon nanotubes as a nano-matrix S Aryal, KCR Bahadur, N Dharmaraj, KW Kim, HY Kim - Scripta Materialia,54,131- 134 (2006)

Scripta Materialia,54,131- 134 (2006) (November 2006)

S. Aryal, KCR Bahadur, N Dharmaraj, KW Kim, HY Kim