




Bharathiar University

State University | "A⁺⁺" Grade by NAAC | 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

Dr A KANNAN Assistant Professor Department of Chemistry Bharathiar University Coimbatore, 641046 Tamil Nadu E-mail: ayyavookannan@buc.edu.in Phone: 9094998448 Office Number: 0422-2428318	
Research Area <ul style="list-style-type: none">• Synthetic Organic Chemistry• Organic Supramolecules• Heterocyclic Chemistry• Light mediated Organic Synthesis	Courses Teaching <ul style="list-style-type: none">• Organic Chemistry- II• Organic Chemistry -III• Organic Chemistry Practical• Industrial Organic Chemistry
Research Experience: 15	Teaching Experience: 9
Research Credentials (as on September 2025 – Source: Google scholar) H-index: 271 Citations: 9 i10-index: 9	
Publications International Journals: 17 National Journals: 1	
Career At Bharathiar University 1. Designation : Assistant Professor Period : November 2016 - Till Date Other Institutes 1. Designation : Post Doctoral Fellow Institution Name : University of the Free State Period : January 2016 - November 2016	
Education Ph. D. Subject : Chemistry Institution : University of Madras Affiliated University : University of Madras Year of Award : August 2015 M. Phil. Subject : Chemistry Institution : University of Madras Affiliated University : University of Madras Year of Award : September 2010 M. Phil. Subject : Chemistry Institution : University of Madras Affiliated University : University of Madras Year of Award : August 2010	



M. Sc.

Subject : Chemistry
Institution : Periyar University
Affiliated University : Periyar University
Year of Award : June 2009

M. Sc.

Subject : Chemistry
Institution : Periyar University
Affiliated University : Periyar University
Year of Award : April 2009

B. Sc.

Subject : Chemistry
Institution : Periyar University
Affiliated University : Periyar University
Year of Award : March 2007

Projects

Research Guidance

National Level

Ongoing - completed - 4
Publications

International Journals - 17

17. D-Glucose Mediated Green Synthesis of 1,4-dihydropyridines Under Microwave Irradiation

J. Synth. Chem., 4, 166-182 (May 2025)
Kannan Ayyavoo, Kandasamy Mohandass

16. Pyrene based materials as fluorescent probes in chemical and biological fields

New J. Chem., 45, 10997-11017 (December 2020)
Kannan Ayyavoo and Praveena Velusamy

15. Polypyridine OsII complexes electrochemical data

Data in Brief,33,106454 (January 2020)
Deidre Van Der Westhuizen Dr. Ayyavoo Kannan Jeanet Conradie Karel von Eschwege

14. The role of glycodendrimer in the structural and optical studies of Co@AgCl core-shell nanoparticles

Materials Chemistry and Physics, 221, 356-360 (January 2019)
Vanathi Vijayalakshmi, R.; Kannan, A.; Praveen Kumar, P.; Ravichandran, K.; Rajakumar, P.

13. Effect of stabilizing agents on the conductivity of Co@TiO2 core-shell nanoparticles

Nano-Struct. Nano-Objects,16,258-265 (October 2018)
Vanathi Vijayalakshmi, R.; Kannan, A.; Praveen Kumar, P.; Ravichandran, K.; Rajakumar, P.

12. Synthesis, photophysical, electrochemical studies and antioxidant property of fluorescein linked

glycodendrimers

Sensor Actuat B-Chem., 242, 907-911 (September 2017)
Kannan, A.; Saravanan, V.; Rajakumar, P.

11. Synthesis and optical, electrochemical properties of glucose cored ferrocenyl dendrimers

Synth. Commun., 47, 541-550 (February 2017)
Kannan, A.; Anandhan, R.; Rajakumar, P.

10. Synthesis and anti-inflammatory activity of triazole based macrocyclic amides through click chemistry

Synth. Commun.,47,671-679 (February 2017)
Anandhan R.; Kannan, A.; Rajakumar, P.

9. Synthesis, characterization, optical and electrochemical properties and antifungal and anticancer activities

of ferrocenyl conjugated novel dendrimers

New J. Chem., 41, 1714-1722 (January 2017)
Saravanan, V.; Kannan, A.; Rajakumar, P.



8. Synthesis, photophysical, electrochemical studies and antioxidant property of fluorescein linked glycodendrimers

Asian Journal of Organic Chemistry, 5, 115-1163 (July 2016)
Kannan, A.; Saravanan, V.; Rajakumar, P.

7. Synthesis, photophysical and electrochemical properties of a new class of fluorescent amidoanthracenophanes

RSC Adv., 5, 73951-73957 (August 2015)
Kannan, A.; Rajakumar, P.

6. Synthesis, photophysical, electrochemical and laser properties of anthracene conjugated glycodendrimers with triazole as bridging units

RSC Adv., 5, 51834-51840 (May 2015)
Kannan, A.; Rajakumar, P.

5. Investigation of Optical Spectroscopic and Computational Binding Mode of Bovine Serum Albumin with 1, 4-Bis ((4-((4-Heptylpiperazin-1-yl) Methyl)-1H-1, 2, 3-Triazol-1-yl) Methyl) Benzene Journal of Biochemical and Molecular Toxicology 29 373-381 2015

Journal of Biochemical and Molecular Toxicology, 29, 373-381 (April 2015)
Karthikeyan, S.; Chinnathambi, S.; Kannan, A.; Rajakumar, P. Velmurugan, D.; Bharanidharan, G.; Aruna, P.; Ganesan, S.

4. Synthesis and catalytic application of glycodendrimers decorated with Gold nanoparticle-Reduction of 4-Nitrophenol

RSC Adv., 5, 46908-46915 (April 2015)
Kannan, A.; Rajakumar, P.

3. Synthesis, photophysical and electrochemical properties of 1,2,3-triazolyl bridged ferrocenyl dendrimers through click chemistry

New J. Chem., 38, 1594-1600 (February 2014)
Rajakumar, P.; Kannan, A.; Anandhan, R

2. Synthesis and In-vitro anti-inflammatory and anti-arthritis activity of novel glycodendrimers with various carbohydrates as surface functionality

Supramolecular chemistry, 25, 362-370 (March 2013)
Rajakumar, P.; Anandhan, R.; Kannan, A.,

1. 1,2,3-Triazole ferrocenyldendrimers through click chemistry approach and their optical and electrochemical properties

Aust. J. Chem., 65, 1457-1462 (September 2012)
Rajakumar, P.; Anandhan, R.; Kannan, A.

National Journals - 1

1. Supramolecular Chemistry

Advanced Organic Chemistry Applications (ISBN: 978-93-94570-79-5) (February 2023)
Ayyavoo Kannan, Muhammed Muhsin P. K., Kandasamy Mohandas

Projects

Completed - 4

1. Organic Supramolecules: A hybrid Donor-? Acceptor molecules for Dye Sensitized Solar Cells (DSSCs)" UGC-MRP 10 Lakh (September 2018 - September 2020)
2. Synthesis of glucoconjugated dihydropyrimidine/ pyridines for the biological applications RUSA 2.0 - BEICH 6 Lakh (January 2020 - June 2020)
3. Synthesis of fluorescent bioglycoconjugate dendrimers for anticancer activity RUSA 2.0 - BCTRC 7.43 Lakh (December 2021 - December 2023)
4. Synthesis and characterization of sulfone based dendrimers for the biological applications TANSCH 33.75 Lakh (May 2021 - May 2024)