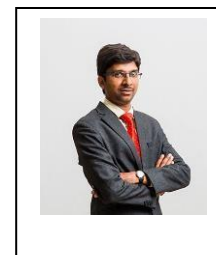


Name : R. Rajkumar
Designation : Assistant Professor
Department : Chemistry
Qualification : M.Sc., Ph.D.
Experience : Teaching: 5 Years 11 Month Research: 6.11 Years
Area of Specialization(s) : Synthetic Organic Chemistry
Email (Official ID) : rajkumar@drngpasc.ac.in



Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
Ph.D.	Chemistry	Bharathiar University, Coimbatore	2018
M.Sc.	Chemistry	Karpagam College of Arts and Science, Coimbatore.	2009
B.Sc.	Chemistry	Govt. Arts College, Coimbatore	2007

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
JRF	Basic Scientific Research (BSR)	UGC	April 2013 – Mar 2015
SRF	Basic Scientific Research (BSR)	UGC	April 2015 – Nov 2016

Research Publications (Indexed)

International

- D. Karthik Kumar, R. Rajkumar, S. P. Rajendran, **Robust synthesis of linear and angular furoquinolines using Rap–Stoermer reaction**, Chemistry of Heterocyclic Compounds, 52(5), 322–325, 2016 (Indexed in SCI).

National

- M. Mohanraj, M. Dineshkumar, R. Rajkumar, R. Raju, **Essential Oil, Phytochemical Analysis And Biological Activity Of Plectranthus Wightii Benth**, International Journal of Creative Research Thoughts, 10(12), e26-e34, 2022 (Indexed in UGC).

2. M. Mohanraj, R. Pooja, R. Rajkumar, R. Raju, **A Review On Therapeutic Application Of Ruthenium Complexes**, International Journal of Creative Research Thoughts, *10*(11), e900-e906, 2022 (Indexed in UGC).
3. R. Rajkumar, M. Mohanraj, R. Raju, **Important Roles of Cyclic Di-Keto Compounds To One Pot Syntheses of Nitrogen Heterocyclic Systems**, International Journal of Creative Research Thoughts, *10*(7), b592-b604, 2022 (Indexed in UGC).
4. R. Rajkumar, M. Mohanraj, S. P. Rajendran, **An Expedient Method For One Pot Three-Component Synthesis Of Fused Benzo[1,8]Naphthyridine Derivatives Catalyzed In Ethanolic Media**, Indian Journal Of Heterocyclic Chemistry, *28*(4), 1-6, 2019 (Indexed in SCI).
5. R. Rajkumar, A. M. Magesh Selva Kumar, S. P. Rajendran, **Three-component One pot synthesis of functionalized benzo[1,8]naphthyridines catalyzed by bronsted bases in protic solvent media**, Indian Journal of Heterocyclic Chemistry, *26* (1), 43-50, 2016 (Indexed in SCI).
6. R. Rajkumar, K. Saravanamani, S. P. Rajendran, **Microwave assisted one pot synthesis of naphtho benzo[1,8]naphthyridine scaffolds**, Journal Of Chemical And Pharmaceutical Sciences, *10*(1), 307-310, 2017 (Indexed in SCOPUS).

Other Publications: International / National Journals

1. R. Rajkumar, P. Dhivya, S. P. Rajendran, **One pot, Three-Component Synthesis of functionalized Benzo[1,8]naphthyridines under catalyst in aqueous media**, Journal of Chemical, Biological And Physical Sciences Sec. A, *6*(3), 777-783, 2016 (Indexed in Google Scholar & Copernicus).
2. A. M. Magesh Selva Kumar, R. Rajkumar, S. P. Rajendran, **Efficient synthesis of fused benzo[b]Indazolo[6,7-*h*][1,6]naphthyridines**, Archive of Applied Science Research, *7*(10), 60-64, 2015 (Indexed in Google Scholar & Copernicus).

Book Publications

Introduction to Organic Chemistry, R. Rajkumar, R. Ravikumar, S. Deepan Published by Dr. Thavamani D Palaniswami Publisher, Dr. N.G.P Arts and Science College, Coimbatore, 2022. **ISBN-978-81-943062-9-0.**

Volumetric Analysis and Preparation; Lab Manual for UG students, M. Mohanraj, R. Rajkumar, Published by Dr. Thavamani D Palaniswami Publisher, Dr. N.G.P Arts and Science College, Coimbatore, 2022. **ISBN-978-81-960554-8-6.**

Presentations in Conference

International

1. One pot, Three-Component Synthesis of 3-acetyl Benzo [1,8]naphthyridines under protic solvent media, International Virtual Conference on Future Prospects in Chemical Research, Seethalakshmi Ramaswami College, Tiruchirappalli, 21 to 22- Dec-2022.

2. One pot, Three-Component Synthesis of 3-acetyl-benzo[*b*][1,8]naphthyridin-2-ones under catalyst in aprotic media, International Virtual Conference on Future Prospects in Chemical Research, Seethalakshmi Ramaswami College, Tiruchirappalli, 21 to 22- Dec-2022.

3. Synthetic studies on angular pyrimido quinoline thions, International Conference on Chemistry-Frontiers & Challenges, PSGR Krishnammal College For Women, Peelamedu, Coimbatore, 5 to 7-Feb-2014.

4. An elegant synthesis of 2-thioxo-2,3-dihydro-1*H*-pyrimido[4,5-*b*] quinoline-4-ones, International Conference on Biologically Active Molecules (ICBAM 2012), Gandhigram Rural Institute –Deemed University, Gandhigram, 8 to 10-Mar-2012.

National

1. Microwave assisted one pot synthesis of naphtho benzo[1,8] naphthyridine scaffolds, National Conference on Recent Trends in Medicinal, Materials, Environmental and Battery Research in Chemistry, Karpagam Academy of Higher Education, Echanari, Coimbatore, 12 &13-Mar-2020.

2. One-pot multicomponent synthesis of substituted dibenzo[*b,g*][1,8]naphthyridin-1-one derivatives in aqueous medium, National Conference on Recent Trends in Chemical Science, Pachamuthu College of Arts & Science for Women, Dharmapuri, 19-Sep-2018.

3. Three component one pot synthesis of dibenzo[*b,g*][1,8]naphthyridin-1-one derivatives in aqueous medium, National Conference on Chemistry of Advanced Material and Biomedical Applications, Kumaraguru College of Technology, Coimbatore, 20 &21-Apr-2018.

4. One pot multicomponent synthesis of substituted 3,3-dimethyl-3,4-dihydro-2*H*-dibenzo[1,8]naphthyridin-1-one derivatives in aqueous medium, National Conference on Emerging Trends in Material, Medicinal and Environmental Chemistry, Karpagam Academy of Higher Education, Echanari, Coimbatore, 8 & 9-Mar-2018.

5. One pot, Three-Component Synthesis of functionalized Benzo [1,8]naphthyridines under catalyst in aqueous media, National Conference on Advances in Environmental, Synthetic And Medicinal Chemistry, Karpagam University, Coimbatore, 5 & 6-Apr-2016.

6. Synthetic studies on benzo fused [1,8]naphthyridines, National Conference on Recent Trends of Green and Medicinal Chemistry, Karpagam University, Coimbatore, 11-Mar-2015.

7. One pot Synthesis of functionalized Benzo[1,8] naphthyridines, National Seminar on Traditional And Mordern Medicine: Current Trends And Future Prospects, Nirmala College for women, Coimbatore, 25-Feb-2011.

Participation in Conference

1. International Webinar on Interdisciplinary Research on Societal Applications: Challenges and Opportunities (IRSA-2020) by Department of Chemistry, Bharathiar University, Coimbatore on 26 & 27 th June 2020.

2. Webinar on Startup Lifecycle and Patent Registration by ACE Innovation Cell, IPR Cell, ACE Institutions Innovation Council (IIC)- MHRD, India and Atharva College of Engineering, Mumbai, on 18 & 19th May 2020.
3. Webinar on Personal Effectiveness – Need of the Hour by Sakthi Institute of Information and Management Studies, Pollachi on 14th May 2020.
4. Webinr on India First Leadership Talk Broadcasted by MHRD’s Innovation Cell, India, on 2nd May 2020.

Participation in Workshop

1. Workshop on Awareness workshop – NIRF INDIA RANKINGS – 2021 for Higher Educational Institutions held online at Institute for Academic Excellence in Collaboration with Collegiate Education & Technical Education Department, Government of Telangana, 18, 19th Jan-2021.
2. Workshop on X-Ray Crystallography and its Applications held at Department of Chemistry, Bharathiar University, Coimbatore, 5 & 6-Mar- 2014.
3. Workshop on Spectroscopy held at Department of Chemistry, Bharathiar University, Coimbatore, 7-Mar-2012.
4. Workshop on Nano Science held at Department of Chemistry, Karpagam University, Eachanari, Coimbatore, 20-Feb-2009.
5. Workshop on Current Development in Chemistry held at Department of Chemistry, Government Arts College, Coimbatore, 7 & 8-Feb-2008.

Participation in Orientation Programme / Short Term Courses

1. IIC Online Sessions by Institutions Innovation Council (IIC) by MHRD’s Innovation Cell, India, on 28 April to 22 May 2020.

Participation in Faculty Development Programme

1. Faculty Development Programme on Novel Materials for Next Generations by AICTE Training And Learning (ATAL) Academy and Nallamuthu Gounder Mahalingam College, Pollachi on 27 -30th July 2021.
2. Faculty Development Programme on Stress Management by Department of Chemistry, Nirmala College for Women, Coimbatore on 14 & 15th July 2021.
3. Faculty Development Programme on Research Methodology and Pedagogy for Tertiary Education by Internal Quality Assurance Cell & Center for Faculty Development by Dr.N.G.P Arts and Science College, Coimbatore on 15-21 June 2021.

4. Faculty Development Programme on Digital Teaching for Digital Learners by Department of Commerce & Management, Nilgiri College of Arts and Science, Ooty on 14th May 2020.
5. Faculty Development Programme on Environmental Science and Engineering held at Dr. N.G.P Institute of Technology, Kalapatti, Coimbatore, 20-Jul-2018.