

RESUME (as on 15.04.2022)
Department of Chemistry (Aided)



1. Name : **Dr.M. PURUSHOTHAMAN**
2. Date of birth : 01.06.1982
3. Address:
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| Residence: 2 / 2.B Alpha Garden, Sirumaruthur, Valadi, Ialgudi, Trichy - 621218 Tamil Nadu, India, Ph : 0431 – 2341944 Email: purush.alpha@gmail.com Mobile: +91- 98944 19774 | Office: Department of Chemistry Jamal Mohamed College (Autonomous), Tamil Nadu, Tiruchirappalli – 620 020 Email: mp@jmc.edu Ph.: 0431- 2331235*215 |
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4. Designation : **Assistant Professor**
5. Educational Qualifications : **M.Sc., M.Phil., Ph.D.**
6. Experience:
- | | | |
|---------------|---|-----------|
| Undergraduate | : | 16- years |
| Postgraduate | : | 16 -years |
| M.Phil | : | 12 -years |
7. Areas of Specialization : **Synthetic Organic Chemistry**
8. Languages known : **Tamil & English**
9. Subjects Taught:
- | | | |
|----------------|---|---|
| Under graduate | : | Organic Chemistry |
| Postgraduate | : | Organic Chemistry |
| MPhil | : | Spectroscopy, Separation Techniques and Research Methodology |
10. Projects completed : **02**

Minor Research Project

| Agency | Title | Amount in Rs. | Duration |
|------------|---|-------------------|--------------------|
| UGC | Synthesis, characterization and biological importance of aminocyanopyridines | 86, 200/- | 2009 - 2011 |
| UGC | Synthesis and biodynamic activities of some pyridopyridines | 3,00,000/- | 2014 - 2016 |

11. Details of Publications : 11

1. Synthesis, antimicrobial and antifeedant activity of 2-acetyl-6-(substituted cinnamoyl)-5-methyl-3-(Substituted styryl)benzo[1,2-b;5,4;b']difurans under PTC” Paper published in “*Indian Journal of Heterocyclic Chemistry*” 16, 317, April **2007**.
2. Synthesis, antimicrobial and antifeedant activity of difurans” Paper published in “*Indian Journal of Heterocyclic Chemistry*” 16, 219, June **2009**.
3. Synthesis, characterization and biological importance of Aminocyano pyridines *International Journal of ChemTech Research* 42, pp 479-483, April **2012**.
4. An Efficient and Facile Synthesis of Coumarin derivatives as Potent Antimicrobial agents, *International Journal of ChemTech Research*, 6(1), 538-546, Jan **2014**.
5. 2,6-Diamino-4-(4-chlorophenyl)-1- methyl-1,4-dihydropyridine-3,5-dicarbonitrile , *Acta Cryst.* (**2014**). E70, o812–o813, doi:10.1107/S1600536814014354.
6. Synthesis and characterization of azo derivatives of Diacetylresorcinol, *Journal of Chemical and Pharmaceutical Research*, 7(4):1452-1455, April 2015.
7. Synthesis and characterisation of 2-(substitutedphenyl)azo-4,6-dipropionylresorcinol derivatives
world journal of pharmaceutical research, 4(6), 1694-1701 May **2015**.
8. Small molecule antagonist for EGFR- a preliminary computational framework of azo derivatives
as therapeutic agent for bladder cancer, *world journal of pharmaceutical research* 4(8), 1069-1078, **July 2015**.
9. Synthesis and characterization of aminocyanopyridines as potent antimicrobial agents, *Int. J. Res. in Organic chemistry*, 2, 6, 2016,
10. Synthesis and antimicrobial activity of Piperidopyrimidines, *Int. J. Res. in Organic chem*, 6(2), 23-26, 2016.
11. Crystal structure, DFT and Hirshfeld surface analysis of 2-amino-4-(2-chlorophenyl)-7-hydroxy4H-benzo[1,2-b]pyran-3-carbonitrile, *Acta Cryst.* (**2019**). E75, 1638–1642, doi.org/10.1107/S205698901901353

12. Details of Papers Presented : 10

1. Paper Presented at the “National Seminar on Hetero atom Chemistry” paper entitled “**A facile synthesis of substituted benzopyranones and their antimicrobial and antifeedant activities**” conducted by Annamalai University on 28 & 29 March 2007.
2. Paper Presented at the “National Seminar on Recent Trends in Chemistry” paper entitled “**A novel synthesis of aminocyanopyridine derivatives and their biological importance**” conducted by Annamalai University on 17 & 18 oct, 2008.

3. Presented a Paper entitled “**Synthesis and characterization and biological importance of cyanoaminocoumarins** Presented a paper in the “**International conference on Green Chemistry and sustainable environment**” organized by holy cross college, Trichy on 7th and 8th July 2010.
4. Presented a Paper entitled “**Synthesis and characterization of cyanoaminocoumarin derivatives at Chennai Chemistry Conference** held at Indian Institute of Technology Chennai during February 11-13, 2011.
5. Presented a Paper entitled “**Synthesis, characterization and antimicrobial activities 4,6-disubstituted resorcinol derivatives** at the state level seminar on new vistas in chemistry (NVC-2012), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 4th & 5th January 2012.
6. Paper presented at National Conference on Current Trend in Chemistry Research (NCTCR-2013) paper entitled “**Synthesis, Characterization and Pharmacological importance of piperidopyrimidines**” Organized by the PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli-620 020, Tamilnadu on 27th & 28th February-2013.
7. Presented a research Paper entitled “**Synthesis of aminocyanopyridines as potent antimicrobial agent**” at the International Conference on Chemical and Environmental Research (ICCER-2014), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-20, Tamilnadu on 11th & 12th March 2014.
8. Presented a research Paper entitled ‘**synthesis and characterization of 4,6-bis (dibromoacetyl)- 2- bromoresorcinol** at “Current Scenario in material Chemistry (CSIMC-2015)” conducted by the PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 9th and 10th February 2015.
9. Presented a research Paper entitled “**In silico docking study of azo compounds of 4,6-Di propanoyl resorcinol as an EGFR antagonist**” at the International Conference on Chemical and Environmental Research (ICCER-2016), Organized by PG & Research Department Of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 17th December 2015.
10. Presented a research Paper entitled ‘**synthesis and antimicrobial activity cytotoxicity of Pyridopyrimidines and pyridopyrimidines**’ at the International Conference on Chemical and Environmental Research (ICCER-2017), Organized by Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu on 7th January 2017.

13. Seminars, Conferences, Symposia and Workshop Attended

1. UGC sponsored National Symposium on recent trends in heterocyclic chemistry (NSRTHC-2004) Conducted by PG & Research Department of Chemistry, Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, Tamilnadu during 24th and 25th September 2004.
2. TANSCHÉ and UGC sponsored Three day workshop on “Curriculum Development and Evaluation” Organized by UGC – Academic Staff College, Bharathidasan University, Conducted at Jamal Mohamed College (Autonomous), Tiruchirappalli-620 020, during 2nd and 4th March 2006.

3. Attended UGC sponsored State Level Seminar on “Emerging Trends in Chemistry” held on March 9, 2006, at Jamal Mohamed College, Tiruchirappalli, Tamilnadu.
4. Attended a seminar on “Advanced Topics in chemistry” during March 13 and 14, 2007, at PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamilnadu.
5. Attended a National Conference on Recent Trends in Chemistry-2007 Organized by PG & Research Department of Chemistry, Bishop Heber College, Tiruchirappalli-17.
6. Attended a seminar on “Modern Techniques in Chemistry” during March 5th and 6th , 2008, at PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli.
7. Attended a conference on emerging trends in chemical research (NCETCR-2008) conducted by Annamalai University on 17 & 18 October, 2008.
8. Attended a “workshop on synthetic and structural chemistry” conducted by Annamalai University on 21 and 22 March , 2009.
9. Attended UGC sponsored State Level Seminar on “Frontier Studies in Chemistry” held on Feb 9 and 10, 2010 at Department of Chemistry, Jamal Mohamed College, Tiruchirappalli, Tamilnadu.
10. Participated NAAC sponsored National Seminar on “Quality Enhancement in Teaching, Research and Extension in Higher Education Institutions -Prospects and Problems” organized by IQAC, Jamal Mohamed College, Tiruchirappalli -20, during 15th & 16th April 2010.
11. Attended a “workshop on advances in molecular science(WAMS-2010) organized by PRIST University, Thanjavur, on 16th and 17th July 2010.
12. Participated UGC sponsored State Level Seminar on “Recent Trends in Chemical Research (RTCR-2010)” conducted by the PG & Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 5th and 6th October 2010.
13. Attended the Seminar on “Creating Competitiveness to excel in higher education – a TQM approach” organized by IQAC, Jamal Mohamed College, Trichy, on 8th December 2010.
14. Attended the seminar on “Recent Developments in Chemistry” held on 29th August 2011 at School of Chemistry, Bharathidasan University, Tiruchirappalli-24.
15. Participated in the State Level Seminar on “New Vistas in Chemistry” (NVC-2012) organized by Department of Chemistry, Jamal Mohamed College, Trichy on the 4th & 5th January 2012.
16. Participated “National Conference on Current Trend in Chemistry Research” (NCTCR- 2013) in Jamal Mohamed College, on 27th&28th February 2013, Tiruchirappalli – 20
17. Participated “state level workshop on structural bioinformatics and protein 3D structure visualization” conducted by Department of Biotechnology and Bioinformatics , Bishop Heber College, Tiruchirappalli -17, on 28th March 2014.

18. Participated “international conference on chemical & environmental research (ICCER-2014) conducted by the Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 11th and 12th March 2014.

19. Participated “Current Scenario in material Chemistry (CSIMC-2015)” conducted by the Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 during 9th and 10th February 2015.

20. Participated “international conference on chemical & environmental research (ICCER-2015) conducted by the Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 on 17.03. 2015.

21. Participated “a one day inter collegiate workshop on E- content development for teaching – learning’ jointly organized by the internal quality assurance cell and JMC alumni association Singapore chapter at Jamal Mohamed College, Tiruchirappalli -20 on 22nd December 2015.

22. Participated “national conference on Recent Advances In Chemistry Research And Its Applications” (NCRACRIA-2017) conducted by the PG & Research Department of Chemistry, St. Joseph’s College, Tiruchirappalli -20 on 19th January 2017.

23. Participated “national conference on Recent Developments in Chemistry (NCRDC-2018) conducted by the Department of Chemistry, Jamal Mohamed College, Tiruchirappalli -20 on 20th January 2018.

24. Two day faculty development program on digital class room PG and Research Department of Chemistry, Jamal Mohamed College, Tiruchirappalli 23-06-2020 To 24-06-2020

25. Faculty Development Programme on Perspective Research for Sustainable Development organized by SRM institute of Science and Technology, Ramepuram, Chennai, during 20-07-2020 To 24-07-2020.

26. Online Faculty Development Programme on Spectroscopic Techniques organized by PG and Research Department of Physics, Jamal Mohamed College, Tiruchirappalli during 03-08-2020 To 05-08-2020.

27. National seminar on Biobased polymers and their industrial applications, Department of Science and Humanities, SRM TRP Engineering College, Trichy on 03-06-2020

28. National seminar on EPR Spectroscopy and its Applications, conducted by Department of Chemistry Govt Arts College, Salem on 26-06-2020.

29. National seminar Quantum mechanics in understanding biological processes and drug discovery, organized by LLB School in association with Schrodinger on 27-06-2020

30. National seminar on Oxygen Elerocatalysis: The Holy Gril of Energy conversion and Storage, Chennai Institute of Technology, Chennai on 29.06.2020

31. National seminar on A simple perspective of Glycosciences, PG and Research Department of Chemistry, Holy Cross College (Autonomous), Tiruchirappalli on 30-06-2020

32. National Seminar on Applications of IR Spectroscopy to Metallic Carbonyls, Anna Adarsh College for Women, Chennai on 24.07.2020

33. Five days online National level FDP on Recent Advances in Analytical Research Techniques conducted by the PG & Research Department of Chemistry Holy Cross College, Tiruchirappalli-2 during 27-09-2021 to 01-10-2021.

34. International Faculty Development Program on Advanced Materials for Sustainable Development conducted by Department of Science and Humanities, Dr. N.G.P. Institute of Technology, Coimbatore. During 15-06-2020 to 19-06-2020

Acted as chair person

1. International Conference on Frontiers in Chemical Research, organized by Department of Chemistry, Bishop Heber College, Tiruchirappalli-17 during 03rd & 04th February 2022.

2. International Conference on Futuristic Aspect of sensors and biosensors, PG and Research Department of Chemistry, Holy Cross College, Tiruchirappalli-2 during 03rd & 04th March 2022.

14. Orientation / Refresher Courses Attended:

1) Orientation Course: UGC Sponsored, Conducted by Academic Staff College, Bharathidasan University, Trichy – 620 023, 20.05.2010 to 16.06.2010.

2) Refresher Course in Chemistry: UGC Sponsored, Conducted by Academic Staff College, Bharathidasan University, Trichy – 620 023, 20.11.2012 to 10.12.2012.

3) Refresher Course in Nano Science and Nano Technology: UGC Sponsored, Conducted by Human Resource Development Centre-Academic Staff College, Madras University, Chennai, 17.11.2015 to 07.12.2015.

4) Refresher Course in Basic Sciences: UGC Sponsored, Conducted by Human Resource Development Centre-Academic Staff College, Calicut University, Calicut, 15.06.2017 to 05.07.2017.

5) Online Refresher Course in One and two dimensional NMR spectroscopy for Chemists, Conducted by NPTEL-IISc Bangaluru during June to December 2020.

15. Membership in Academic Bodies

1. Member, Board of Studies of Chemistry Department, Jamal Mohamed College (Autonomous), Tiruchirappalli.

2. Member, Board of Studies of Chemistry Department, Mahendra College of Arts and Science (Autonomous), Namakkal.

3. Member, Moral Education-Core Team

4. Examiner, UG Valuation Board, Bharathidasan University, Tiruchirappalli.

5. Examiner and question paper scrutiny board member-UG & PG Board, Periyar University, Salem,

16. Participation in Consultancy:

1) In-charge for **FT-IR Instrument**, Department of Chemistry, Since June 2012.
