

Dr. M. Mariappan, M.Sc., M.Phil., Ph.D.,

Designation : Assistant Professor
Department : Chemistry
Subject Interest : Inorganic Chemistry and Physical Chemistry
Specialization : Crystal Growth

DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE

Assistant Professor

Institute : EGS Pillay Engineering College, Nagapattinam
Period : 04-01-2000 to 8-6-2008 and 1-9-2009 to 25-2-2011
Teaching Areas : Engineering Chemistry, Organic Chemistry and Physical Chemistry and Environmental Chemistry

Assistant Professor

Institute : RVS College of Engineering and Technology
Period : 9-6-2008 to 26-8-2009
Teaching Areas : Engineering Chemistry and Environmental Chemistry

Assistant Professor

Institute : H.H. Rajah's College, Pudukkottai
Period : 1-3-2011 to 13-8-2012
Teaching Areas : Physical methods in chemistry and Bio-Inorganic chemistry

Assistant Professor

Institute : Thiru.Vi.Ka. Govt. Arts College, Thiruvarur
Period : 14-8-2012 to Till now
Teaching Areas : Bio-Inorganic chemistry, Physical Chemistry, Analytical Chemistry

ACADEMIC PROFILE

Ph.D

University : Bharathidasan University
College : ADM College for Women, Nagapattinam
Subject : Chemistry
Year : April 2009

Grade : Highly Commended
Title of the Thesis : Key aspects of growth phenomena of nonlinear optic urea thiourea mixed crystals in various solvents, with dopants and their characterization

M.Phil.,

University : Bharathidasan University
College : Govt College for Men, Kumbakonam
Subject : Chemistry
Year : December 2002
Grade : Distinction
Title of the Thesis : Productivity and Quality Improvement of Maize Crops by Eco-friendly Fertilizers

M.Sc.,

University : Bharathidasan University
College : Khadir Mohideen College, Adirampattinam
Subject : Chemistry
Year : April 1998
Marks : First Class

B.Sc.,

University : Bharathidasan University
College : TBML College, Porayar
Main Subject : Chemistry
Year : April 1996
Marks : First Class

Publication (give a list separately) : **Yes, Enclosed**

Research Guidance (Give names of students guided successfully)

Name of the degree	Total no. of Students	Degree Awarded	Guiding at Present
M.Phil	---	---	---
Ph.D	5	1	4

Students Successfully Completed in the Ph.D Programme

Name of the Scholar	Title of the thesis	Submitted	Awarded	Name of the University	Month & Year
S.Senthilkumar	Synthesis and characterization of some novel β -carboline of biological interest	---	Awarded	Bharathidasan	July 2015

RESEARCH PROJECTS CARRIED OUT

Title of the Project	Name of the funding agency	Duration/Remarks
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Improvement of Professional Competence

Name of the Training programme	Place	Duration of Training Programme
1	2	3
Orientation Course	Academic Staff College, University of Madras	27 Days 04.05.2011 to 02.06.2011
Refresher Course in Chemistry	UGC Academic Staff College, Bharathidasan University, Tiruchirappalli	21 Days 20.11.2012 to 10.12.2012

LIST OF PUBLICATIONS

1. [Thermal, UV and FTIR spectral studies of urea–thiourea zinc chloride single crystal](#)

G Madhurambal, M Mariappan, SC Mojumdar, Journal of Thermal Analysis and Calorimetry 100 (3), 763-768, 2010

2. [TG–DTA, UV and FTIR spectroscopic studies of urea–thiourea mixed crystal](#)

G Madhurambal, M Mariappan, SC Mojumdar, Journal of Thermal Analysis and Calorimetry 100 (3), 853-856, 2010

3. [Growth and characterization of urea-thiourea non-linear optical organic mixed crystal](#)

G Madhurambal, M Mariappan, Indian J Pure Appl Phys 48, 264-70, 2010

4. [The growth and characterization of a metal organic crystal, potassium thiourea thiocyanide](#)

K Ramamurthi, G Madhurambal, B Ravindran, M Mariappan, Journal of thermal analysis and calorimetry 104 (3), 943-947, 2011

5. [Thermal and FTIR spectral studies in various proportions of urea thiourea mixed crystal](#)

G Madhurambal, M Mariappan, B Ravindran, SC Mojumdar, Journal of thermal analysis and calorimetry 104 (3), 885-891, 2011

6. [Synthesis and characterization of some single crystals of thiourea urea zinc chloride](#)

B Ravindran, G Madhurambal, M Mariappan, SC Mojumdar, Journal of thermal analysis and calorimetry 104 (3), 893-899, 2011

7. [Thermal, FTIR and microhardness studies of bithiourea-urea single crystal](#)

M Mariappan, G Madhurambal, B Ravindran, SC Mojumdar, Journal of thermal analysis and calorimetry 104 (3), 915-921, 2011

8. [Thermal, UV and FTIR spectral studies in alkali metal cinnamates](#)

G Madhurambal, B Ravindran, M Mariappan, S Mojumdar, Journal of Thermal Analysis and Calorimetry 100 (3), 811-815, 2010

9. [Nucleation kinetics of a new nonlinear optical crystal: Urea–thiourea zinc chloride](#)

SC Mojumdar, G Madhurambal, M Mariappan, B Ravindran, Journal of thermal analysis and calorimetry 104 (3), 901-907, 2011

10. [Synthesis growth and characterization of l-valine nickel \(II\) chloride: a novel semiorganic nonlinear optical crystal](#)

MK Sangeetha, M Mariappan, G Madhurambal, SC Mojumdar, Journal of thermal analysis and calorimetry 108 (3), 887-894, 2012

11. [Growth and characterization of cinnamic acid–urea single crystal](#)

G Madhurambal, B Ravindran, M Mariappan, K Ramamurthi, Journal of thermal analysis and calorimetry 104 (3), 875-878, 2011

12. [Growth and characterization of 0.1 and 0.25 zinc magnesium ammonium sulphate](#)

G Madhurambal, M Mariappan, S Hariharan, P Ramasamy, SC Mojumdar, Journal of thermal analysis and calorimetry 112 (2), 1127-1132, 2013

13. [Thermal and FTIR spectral studies of various proportions of zinc magnesium ammonium sulfate](#)

G Madhurambal, M Mariappan, S Hariharan, P Ramasamy, SC Mojumdar

Journal of thermal analysis and calorimetry 112 (2), 1031-1037, 2013

14. [Growth and characterization of tris thiourea chromium \(III\) sulphate](#)

G Madhurambal, B Ravindran, M Mariappan, SC Mojumdar

Journal of thermal analysis and calorimetry 108 (3), 905-910, 2012

15. [Growth and characterization of mercury cinnamate single crystal](#)

B Ravindran, G Madhurambal, M Mariappan, K Ramamurthi, Journal of thermal analysis and calorimetry 104 (3), 909-914, 2011

16. [Growth and characterization of nonlinear optical material: l-alanine thiourea](#)

MK Sangeetha, M Mariappan, G Madhurambal, SC Mojumdar, Journal of thermal analysis and calorimetry 112 (2), 1059-1066, 2013

17. [Investigation on the growth and characterization of nonlinear optical single crystal of bis thiourea iron \(II\) sulphate](#)

G Madhurambal, B Ravindran, M Mariappan, SC Mojumdar, Journal of thermal analysis and calorimetry 108 (3), 911-914, 2012

18. [TG–DTA, XRD, SEM, EDX, UV, and FT-IR spectroscopic studies of l-valine thiourea mixed crystal](#)

MK Sangeetha, M Mariappan, G Madhurambal, SC Mojumdar, Journal of Thermal Analysis and Calorimetry 119 (2), 907-913, 2015

19. [Growth and Characterization of a New Non-Linear Optical Crystal: Urea Thiourea Zinc Chloride](#)

G Madhurambal, M Mariappan, Asian Journal of Chemistry 20 (7), 5067-5070, 2008

20. [Investigation on nucleation kinetics of urea–thiourea mixed crystal \(UTMC\) in methanol and absolute alcohol](#)

G Madhurambal, M Mariappan, G Selvarajan, SC Mojumdar, Journal of Thermal Analysis and Calorimetry 119 (2), 931-938, 2015

21. [Thermal, UV and FTIR Spectroscopic Studies of Mercury Cinnamate](#)

G Madhurambal, B Ravindran, M Mariappan, Asian Journal of Chemistry 23 (2), 917, 2011

22. [Thermal, UV and FTIR Spectroscopic Studies of Urea-Thiourea Mixed Crystal](#)

G Madhurambal, M Mariappan, Asian Journal of Chemistry 20 (7), 5779, 2008

23. [Effect of Solvent on the Growth of Various Proportion of Organic Mixed Crystal](#)

G Madhurambal, M Mariappan, Asian Journal of Chemistry 20 (3), 1670, 2008

24. [Removal Efficiency of Lead, Chromium and COD by Plant materials](#)

G Selvarajan, M Mariappan, G Madurambal, M Thendral, ijcps, 2012

25. [Synthesis and Characterization of Bisurea-Thiourea Mixed Crystal](#)

G Madhurambal, M Mariappan, ijcps, 2013

26. [Investigation on Nucleation Kinetics of Urea-Thiourea Mixed Crystal in Methanol](#)

G. Madhurambal, M. Mariappan and G. Selvarajan, ijpcs, 2012

27. [Crystal growth and characterization of 0.75urea thiourea mixed crystal](#)

M. Mariappan, G. Madhurambal, M. Mariappan, ijpcs, 2012.

28. [Crystal growth and characterization of 0.1 urea thiourea mixed crystal,](#)

G. Madhurambal, M. Mariappan, ijpcs, 2012.

29. [Synthesis Growth and Characterization of a new NLO material: L-Threonine Lithium Chloride](#)

NGBAD Vijayaraj C*, 1 Mariappan M, International Journal of Chemical and Pharmaceutical Sciences 6 (dec 15), 23-26

30. [FABRICATION OF HYDROXYAPATITE NANORODS FROM LAND- SNAIL SHELL \(Helix pomatia\) ASSISTED BY MICROWAVE IRRADIATION](#)

MMSJJ G. Nedunchezian, D. Benny Anburaj, J. Sembian Ruso, C.Vijayaraj and M. Mariappan, Indo-Asian journal of multidisciplinary research 1 (4), 345-354

31. [Nucleation kinetics of various proportions of Urea-Thiourea mixed crystal in Water-Methanol](#)

M Mariappan, G Madhurambal, D Benny Anburaj, G Nedunchezian, C. Vijayaraj, International Journal of Chemical and Pharmaceutical Sciences Vol 6, Dec 2015

32. [" Synthesis Growth and Characterization of a New NLO material: L-Threonine Manganese Chloride"](#)

C. Vijayaraj, M. Mariappan, G. Nedunchezian, Indo - Asian, J. of Multidisciplinary Research., 2(2), 555-560, 2016.

SEMINARS, SYMPOSIUM AND CONFERENCE:

S.NO	DATE	TITLE	VENUE
01.	07.12.2006 To 09.12.2006	Presented a Paper in the National Seminar on Crystal Growth	SSN College of Engineering, Kalavakkam, Chennai-603 110
02.	03.01.2007 To 07.01.2007	Presented a paper in 94 th Indian Science Congress	Annamalai University, Annamalainagar, Chidambaram
03	23.02.2007 To 24.02.2007	Presented a paper in the UGC sponsored National Seminar on Emerging Trends in Chemistry	AVC College, Mannampandal, Mayiladuthurai-609 305
04	01.04.2009	Presented a paper in the International Colloquium on Biovision-09	RVS College of Arts and Science, Kalikuppam, Karaikal – 609 609
05	02.04.2009 To 03.04.2009	Presented a paper in DST, CSIR, BRNS, TANSHE & IACT Sponsored National Seminar on "Instrumentation Techniques applied to Chemical Sciences"	ADM College for Women, Nagapattinam-611 001
06	03.03.2012	Presented a paper in the UGC Sponsored National Seminar on Recent Advances in Chemical Sciences	H.H. The Rajah's College, Pudukkottai-622 001.
07	02.09.2004 To 03.09.2004	Participated in the Regional Symposium on Environment Impact Assessment and Control-2004	ADM College for Women, Nagapattinam-611 001

08	24.12.2005 To 26.12.2005	Participated in the International Congress of Chemistry and Environment	Indore, Madyapradesh
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WORKSHOPS

S.NO	DATE	TITLE	VENUE
1.	20.08.2005	Renewable Energy-Energy of the Future	EGS Pillay Engineering College, Nagapattinam
2.	09.10.2006 To 13.01.2006	International Workshop on Crystal Growth & Characterization of Advanced Materials	Anna University, Chennai

GENERAL INFORMATION

- a. Name : **M. Mariappan**
- b. Address : 4/81 Sivan North Street,
Azhiyur 611117,
Nagapattinam District.
Phone No: 04365-246305
Cell No: 8122856305.
- c. Designation : Assistant Professor
- d. Department : Chemistry
- e. Date of Birth : 07.07.1975
- g. Date of appointment
- i) In the Institution : 14-08-2012
- ii) In the present post : 01-03-2011