

BIO DATA



Name : Dr. G. Kanthimathi
Designation : Professor
Department : Chemistry
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1. Educational Qualification

Degree	Branch / Specialization	Institute/University	Year of Passing
B.Sc	Chemistry	Manonmanium Sundaranar	1994
M.Sc.	Chemistry	Manonmanium Sundaranar	1996
M.Phil	Chemistry	Madurai Kamaraj	2004
P.hD	Chemistry	Kalasalingam	2013

2. Professional/ Industry Experience : (in chronological order)

S.No	Designation	Institution/Organization	Period	
1.	Lecturer & HOD	V.P.M.M Arts and science College for Women	16.05.1998	19.10.2002
2.	Lecturer	V.P.M.M Engineering College for Women	21.10.2002	07.05.2004
3.	Lecturer & HOD	V.P.M.M Arts and science College for Women	08.05.2004	06.05.2007
4.	Assistant Professor	Kalasalingam University	07.06.2007	30.06.2014
5.	Assistant Professor	RAMCO Institute of Technology	1.7.2014	30.5.2016
6.	Assistant Professor (Sr.Gr.)	RAMCO Institute of Technology	1.6.2016	30.5.2018
7.	Associate Professor	RAMCO Institute of Technology	1.6.2018	30.01.2024
8.	Professor	RAMCO Institute of Technology	01.02.2024	Till Date

3. Research Interest: Nano Materials for Environmental Applications

Updated as on 05.06.2026

4.1 JOURNAL PUBLICATIONS

1. **G.Kanthimathi**, T. Vigneswari, M. Ananda kumar, R. Shanmuga Selvan, B. Vahini, (2026) published a paper entitled “Green synthesis of silver nanoparticles using Vitexnegundo and it’s enhanced antibacterial activity against Bacillus sp.” J Drug Deliv Technol., 16(32s):403-408. published on 06.05.2026. DOI:<https://ijddt.com/volume16issue16s>.
2. Dr. Kiran Panchal, Nupur Gupta, Dr. Prathibha B S, Harpreet Kaur Sodhi , **G.Kanthimathi**, (2025) published a paper entitled “Adoption and Performance Impact Of IOT- And AI-Enabled Smart Waste Management: Empirical Evidence From Indore India” -Multidisciplinary, Scientific Work and Management Journal ISSN: 1053-7899 ,Vol. 35 Issue 2, Pages:2522-2528, published on 17.02.26. DOI: <https://doi.org/10.7492/pav1v112>
3. M.Venkatesh Perumal*, S.Nagarajan, **G. Kanthimathi**, T. Usharani, M. Anandakumar, (2025) “Lanthanum Oxide Nanoparticles Synthesis Using Plant Extracts: A Greener Approach”, Journal of Molecular and Engineering Materials, (2025) 2550012 (7 pages), Web of Science Indexed & ESCI, IF: 2.4). DOI: 10.1142/S2251237325500121.
4. Omod Ojulu, **G.Kanthimathi**, Raji Fayisa, Ponnusamy Thillai Arasu, (2024) published a paper entitled “Sensitivity and Selectivity Detection Studies of Fe (III) Using Cu(I) Complex of Schiff Base Material”, Materials Science Forum, ISSN:1662-9752, Vol. 1119,pp31-45, Trans Tech Publications Ltd, Switzerland on 29.03.2024 (<https://doi.org/10.4028/p-O8mOcg>).
5. Lakshmanan Muthulakshmi, Shalini Mohan, **Gomathinayagam Kanthimathi**, Rajendran Rajaram (2024) published a paper entitled “Immobilization of EPS-modified sodium alginate microcapsule by co-polymerization for methylene blue dye adsorption and kinetics”, Total Environment Advances, Elsevier, (<https://doi.org/10.1016/j.teadva.2024.200109>)
6. S.Manimegalai, A.Prathiba, **G.Kanthimathi** and A.Mathina (2024) published a paper entitled “ A Comprehensive Corrosion Inhibition Behaviour Studies of Leucophyllum frutescens Leaves Extract for Mild Steel” Asian Journal Of Chemistry, Vol. 36, No.9 ISSN: 0975-427X (Online) | ISSN: 0970-7077 (Print) <https://doi.org/10.14233/ajchem.2024.32109>.
7. Dhanuja K., Manimegalai S., Prithiba A. **Kanthimathi G** and Ancy M.V, (2024) published a paper entitled “Telosma cordata and Zephyranthes candida mediated Green Synthesis of Zinc Oxide Nanoparticles using Plant Extract “ Research Journal of Chemistry and Environment (Res. J. Chem. Environ.) Vol. 28 (11) <https://doi.org/10.25303/2811rjce0990106>.
8. N. Ravisankar, N. Sarathi, T. Maruthavanan, Subramaniyan Ramasundaram , M. Ramesh, C. Sankar, S. Umamatheswari, **G. Kanthimathi**, Tae Hwan Oh, (2023) published a paper on “Synthesis, antimycobacterial screening, molecular docking, ADMET prediction and pharmacological evaluation on novel pyran-4-one bearing hydrazone, triazole and isoxazole moieties: Potential inhibitors of SARS CoV-2”, Journal of Molecular Structure, Volume 1285, 5 August 2023, 135461 <https://doi.org/10.1016/j.molstruc.2023.135461>.
9. Hana Tadesse, **G.Kanthimathi** Raji Fayisa, Ponnusamy Thillai Arasu, Segni Asaf (2023) published a paper on “Antibacterial studies and characterization of newly synthesized ZnO/ZnS/CuS ternary nanocomposite” in Elsevier Materials Today.
10. T.Vigneswari, **G.Kanthimathi**, Lakshmanan Muthulakshmi, (2023) published a paper entitled “Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen” in Elsevier Materials Today Proceedings

11. S.Pulla Reddy, J.Sai Chandra, K.S. Yoganand, **G.Kanthimathi** (2022) and K.V.L.N. Murthy published a paper on "Optimization and Validation of RP-HPLC Stability Indicating Method for Determination of Gliclazide in Pure and Bulk Drug" in Bulletin Of Environment, Pharmacology and Life Sciences.
12. M. S. Raghu, C. B. Pradeep Kumar, M. K. Prashanth, K. Yogesh Kumar, B. S. Prathibha, **G.Kanthimathi**, Siham Abdulrahman Alissa, Hanan Abdulrahman Alghulikah and SamehM. Osman, (2021) "Novel 1,3,5-triazine-based pyrazole derivatives as potential antitumor agents and EGFR kinase inhibitors: synthesis, cytotoxicity, DNA binding, molecular docking and DFT studies" *New Journal of Chemistry*, 45, 13909, *New Journal of Chemistry*, 2021, 45, 13909, DOI:[10.1039/D1NJ02419A](https://doi.org/10.1039/D1NJ02419A).
13. C.B. Pradeep Kumar,, M.S. Raghu ,B.S. Prathibha,, M.K. Prashanth,G. Kanthimathi, K. Yogesh Kumar , L. Parashuram , Fahad A. Alharth (2021), Discovery of a novel series of substituted quinolines acting as anticancer agents and selective EGFR blocker: Molecular docking study, Volume 44, 15 July 2021, 128118, *Bioorganic & Medicinal Chemistry Letters*.DOI: <https://doi.org/10.1016/j.bmcl.2021.128118>
14. **Kanthimathi. G**, Thillai Arasu. P, Kotteeswaran . Pand Kottaisamy. M (2015), "Removal of lead (II) ions using synthetic nano iron oxide and commercial activated carbon", *J. Indian Chem. Soc.*, Vol.92, pp. 1029-1033.
15. **Kanthimathi. G**, Kotteeswaran. P, Thillai Arasu. P, and Kottaisamy.M, (2015), "Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards The Removal of Cu(II) Ions – Comparative Study", *International Journal of Innovative Research in Science & Engineering ISSN (Online) 2347-3207*.
16. Jayalakshmi.L, Devadoss. V, Ananthakumar.K, **Kanthimathi.G** (2014) "Adsorption Efficiency of Natural clay towards the removal of Naphthol green dye from Aqueous solutions: Equilibrium and Kinetic studies", *Int. Res. J. Environment Sci.*, 3(5), 21-26.
17. **Kanthimathi. G**, Kotteeswaran , Thillai Arasu.P and Kottaisamy .M " Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of (Co(II) ions, *Indian Journal of Chemical Science Transactions* 2014, 3(1) 431-437.
18. **Kanthimathi.G**, Kotteeswaran.P and Kottaisamy.M, (2013), "Vibrational Spectral Magnetics studies on the removal of Ni(II) and Pb(II) ions using synthetic nano adsorbent Fe₃O₄", *International Journal of Chem. Tech. Research*, vol.5, No.5, pp.2548-2554. Impact Factor 0.136
19. **Kanthimathi.G**, Kotteeswaran.P M. Muthuraman M. Mahendran and M. Kottaisamy, (2013) , " Atomic Absorption and Vibrational Spectral Magnetic Studies on the removal of Cu(II) and Co(II) ions using synthetic nano adsorbent Fe₃O₄", *Journal of Soft Nano Science Letter* , vol.3, pp. 75-78.
20. **Kanthimathi. G**, Kotteeswaran and Kottaisamy.M (2012), " Removal of Cobalt (II) Ion from Aqueous Solution using Synthetic Nano Fe₃O₄ and Macro Fe₃O₄– A comparative study", *Thin Films and Nanomaterials*, Macmillan publishers, ISBN: 978-935-059-049-2.
21. **Kanthimathi.G**, Kotteeswaran.P and Kottaisamy.M, (2012), "Effective Removal of Nickel (II) ions by using synthetic nano Fe₃O₄", *Journal of Advances in Nanoscience and NanoTechnology*, vol.678, pp.7-11.
22. **Kanthimathi.G**, Kotteeswaran.P and Kottaisamy.M, (2012), "Atomic Absorption Spectral studies for the removal of Lead(II) ion by using synthetic nano and macro Fe₃O₄", *Advanced Material Research*, vol.584, pp.173-177.
23. **Kanthimathi.G**, Kotteeswaran.P, Thillai Arasu.P, Govindnaraj.P and Kottaisamy.M, (2012), "A comparative study of the Adsorption Efficiency of the synthetic nano Iron oxide and Commercial activated charcoal towards the removal of Nickel(II) ions", *E- J.Chem.*, vol.9, No. 4, pp. 2384-2393.

4.2 BOOK CHAPTER PUBLISHED

1. Ponnusamy Thillai Arasu, Arumugam Murugan, **G. Kanthimathi**, R. Kalavani, A. Malar Retna, Natarajan Raman (2025) published a book chapter entitled “Microbiological activities of inorganic nanomaterials” in CRC Press. Published on 1.1.2 Multifunctional Inorganic Nanomaterials Scopus Indexed on 1.1.2026.DOI: DOI:10.1201/9781003501596-20.
2. P.Thillai Arasu, S.Jeyakumar, R.Kalavani, **G.Kanthimathi**, R.Natarajan,A.Murugan,Mithun Chakrabarty and Pooja Kadyan (2025) published a book chapter entitled “ Advanced Nanomaterials for Biofuel Production and Their Future Opportunities” in CRC Press. “ Engineering Materials for Biofuel Developments” on 17.09.2025 (Scopus Indexed) <https://share.google/SwPITAbFpaSipsa9c> pp.3-31.
3. Ponnusamy Thillai Arasu, Arumugam Murugan, A. Mohamed Azharudeen, G. **Kanthimathi**, Natarajan Raman, S. Arun Prabhu and G. Elango (2025)published a book chapter entitled “**Effective Removal and Remediation of Heavy Metals and Emerging Pollutants from Industrial Wastewater**” in **Recent Trends in Industrial Wastewater Treatment (Taylor & Francis)** Scopus indexed.<https://doi.org/10.1201/9781003496014>
4. Ponnusamy Thillai Arasu, Arumugam Murugan, **G. Kanthimathi**, A. Malar Retna, S. Daphne Rebekal, Natarajan Raman, Robin Kumar Samuel, Tola Jebssa Masho , (2024) Book chapter No11 entitled as, “**Carbon-Based Nanomaterials in Energy Storage Devices Fuel Cells and Biofuel Cells**”, in the book name of “Carbon-based Nanomaterials for Green Applications”, published by the Wiley-IEEE Press **17 December 2024**, Page(s):275–305 <https://doi.org/10.1002/9781394243426.ch11>
5. Thillai Arasu Ponnusamy, Siva Vadivel, **Kanthimathi Gomathinayagam**, Sakthivel Arumugam, Murugan Arumugam, Rajkumar Thangamani, Raman Natarajan, C.R. Ravikumar, Nagendra Nath Yadav (2024) published a book (Chapter 6) entitled “**Hybrid nanomaterials as semiconductors**” for the Book **Hybrid Nanofillers for Polymer Reinforcement**. DOI: <https://doi.org/10.1016/B978-0-323-99132-2.00006-6>
6. P.Perumal, B.Vignesh Babu, S. Manimegalai **G.Kanthimathi**, A.Prithiba (2024)published a book chapter entitled “**Phytochemical Screening and Spectral Analysis Of SesBanias Grandiflora and Amaranthus Viridis**” in IIP Book Series "IIPV3EBS06_G32 Futuristic Trends in Chemical, Material Sciences & Nano Technology e-ISBN: 978-93-5747-960-8 IIP Series, Volume 3, Book 7, Part 4, Chapter 1.<https://www.doi.org/10.58532/V3BECS7P4CHI> **May 2024**
7. V. Siva , **G. Kanthimathi**, A. Sakthivel, A. Murugan, T. Rajkumar, N. Raman, C. R. Ravikumar, P. Thillai Arasu & N. N. Yadav published a book chapter entitled “Hybrid Nanomaterials as Semiconductors” in Elsa
8. **G.Kanthimathi, M.Venkatesh Perumal** and **Dr.O.Senthilkumar** published a book chapter entitled “**Drinking Water Contaminants and Health Implications**”, in the Book “**Science of Environment**”, Scieng Publications (ISBN -978-81-955557-9-6)
9. O.Senthilkumar, .G.Kanthimathi, C. Revathi and S.Soundeswaran (2021) published a book chapter entitled “Current Trends in Sodium Alginate Based Nanocomposites for Wastewater Treatment”,Recent Innovations In Engineering, Science and Management (RIESM), 912-936 Association of Global Academicians and Researchers Publications,(ISBN : 978-81-950236-2-2) .

4.3 BOOKS PUBLISHED

1. **Dr. G. KANTHIMATHI**, C. KATHIRAVAN, Dr. E. PAULSAMY, Dr. P. NANDHA KUMAR Publied a book entitled “**GE3451 Environmental Science and Sustaibility**” Common to VI Semester B.E / B.Tech Students, SriKrishna HiTech Publiishing Company Private Limited, on 01.02.2026.
2. A.Lakshmi,Payal Koowal, VV.adivu, **G.Kanthimathi** published book entitled “**AI-Driven Medical Imaging: Innovations, Applications, and Future Directions**“, Protek Publications, ISBN : 978 -93 -6228 -594-2

4.4 CONFERENCE PUBLICATIONS

1. G.Kanthimathi, Professor/Chemistry, M.Venkatesh Perumal, ASP/Chemistry presented a paper entitled “Biogenic Eu₂O₃ Nanostructures as Dual-Color (Green-Red) Luminescent Probes for Bioimaging” in the International Conference on Smart

Materials (ICSM-2026), organized by Department of Physics, Fatima College (Autonomous), Madurai on 25 February 2026.

2. **G.Kanthimathi**, M. Thamilarasu, S. Manimegalai, T.Vigneswari, A.Prithiba presented a paper entitled “ **Studies on the Biosynthesis, Characterisation and Adsorption of Magnesium oxide nanoparticles utilizing *Parmotrema perlatum***”, Sixth International Conference on Materials Science and Manufacturing Technology (ICMSMT 2024) organized by Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India, on 03.05.2024 & 04.05.2024.
3. Dr.T.Vigneswari, AP(SG)/Physics **G.Kanthimathi**, Prof/Chemistry and Lakshmanan Muthulakshmi presented a paper titled "**Antibacterial Comparison of Silver & Iron Nanoparticle via Ecofriendly Approach**" in the International Conference on Innovative Horizons in Material Research: Growth, Characterization and Applications (ICIHMR-2024) organized by SRM Institute of Science & Technology, Ramapuram, Chennai during 20-21 Dec. 2024
4. Dr.T.Vigneswari, AP(SG)/Physics, **Dr.G.Kanthimathi**, Prof/Chemistry, S.Jeyaprakash, Dr.S.Manimegalai, and Dr.A.Prithiba presented a paper titled "Green Synthesis of Aluminium Oxide Nanoparticles Using *Parmotrema perlatum*: Characterization and Heavy Metal Adsorption Efficiency" in the Sixth International Conference on Recent Advances in Materials and Manufacturing (ICRAMM 2024) organized by Velalar College of Engineering and Technology, Erode during 30-31 Dec., 2024.
5. **Dr.G.Kanthimathi**, Prof/Chemistry, Dr.T.Vigneswari, AP(SG)/Phy., **Dr.M.Venkatesh Perumal**, ASP/Chemistry presented a paper entitled"**Biotechnological Approaches to Carbon Capture and Storage**" UGC sponsored National Conference on Expanding Frontiers in Chemistry – EFC 2K25 (Hybrid Mode) Organized by PG Department of Chemistry, Arul Anandar College (Autonomous), Karumathur – 625514, Madurai, Tamil Nadu, India on 14.02.2025.
6. **G.Kanthimathi**,O.Senthilkumar, C.Sankar, B.S.Prathiba and S.M.Senthil Kumar presented a paper entitled “**Green Synthesis of Silver Nanoparticles using Vitex Negundo Extracts and their Application in the Effluent Treatment of Cracker Industries**”, Second International Conference on Advances in Physical Sciences and Materials 2021 (ICAPSM 2021) ,Coimbatore 17 Aug 2021. █
7. **G.Kanthimathi**, T.Vigneswari, O.Senthilkumar and C.Sankar presented a paper entitled “Synthesis of Iron Oxide Using *Azadirachta Indica*”,International Conference on Solution Grown Crystals and Their Useful Applications(SGCA-2021), organised by SSN Research Centre, SSN Institutions, Chennai, Tamil Nadu, India, 13 September 2021.
8. T.Vigneswari, **G.Kanthimathi**, O.Senthilkumar and C.Sankar presented a paper entitled “Green Synthesis and Antibacterial Activity Of Iron Oxide Nanoparticles Using *Vitex Negundo* Leaf Extract by Sol-gel Method”,International Conference on Solution Grown Crystals and Their Useful Applications(SGCA-2021), organised by SSN Research Centre, SSN Institutions, Chennai, Tamil Nadu, India, 13 September.
9. **Dr.G.Kanthimathi** presented a paper entitled “**A Clean & Green Ramco Campus Feasibility Report**” for the IUCEE Mini-Symposium on "**Smart, Clean, Green, and Sustainability**" under the theme **Sustainable Technology** on 06 Feb 2022.
10. **Dr.G.Kanthimathi and M.Venkatesh Perumal** presented a paper entitled” Green Synthesis of Metals and their Oxide Nanoparticles-Sol Gel Method” on National Virtual Conference on Sustainable Chemistry and Renewable Energy (SCFRE -2022) organized by Universal Intellectuals Trust (UIT)Villupuram, Tamil Nadu, India on 27 Feb 2022.
11. **T.Vigneswari**, **G.Kanthimathi** and P.Sivaranjana “Green Synthesis of CuO Nanoparticles with *Hibiscus rosa-sinensis* and phytochemical screening” presented a paper titled in the International Conference on Smart Technologies and Applications

- (ICSTA 2022) organized by Ramco Institute of Technology, Rajapalayam during March 11 - 12, 2022.
12. Dr.S.Periyayagi, **Dr.G.Kanthimathi**, Ms. M.Helenmary and Ms.P.Kiruthika presented a paper entitled “**Monitoring Domestic Sewage Effluent Using LoRa Technology**” in ISTE SPONSORED NATIONAL LEVEL CONFERENCE ON EMERGING TRENDS IN ENGINEERING DESIGN & MANUFACTURING (ETEDM - 22), organized by Hindustan Institute of Technology, Coimbatore on 15th & 16th June 2022.
 13. **Dr.G.Kanthimath**, **Dr.T.Vigneswari** **L.Muthulakshmi** and **O.Senthilkumar** presented a paper entitled “**Green synthesis of silver nanoparticles using Vitex negundo and its enhanced antibacterial activity against Bacillus sp.**” in 2nd International Conference on Sustainable Materials & Technologies for Bio & Energy Applications (SMTBEA-2022) organized by Department of Electronics & Communication Engineering & SSN research Centre (SSNRC),SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM, 13 July to 15 July 2022.
 14. M. Muralisankar, **G. Kanthimathi**, **T. Vigneswari** and **O. Senthilkumar** presented a paper entitled “Undoped and Ag doped TiO₂ Nanoparticles by Sol-Gel Method for Dye Effluent Treatment .” in 2nd International Conference on Sustainable Materials & Technologies for Bio & Energy Applications (SMTBEA-2022) organized by Department of Electronics & Communication Engineering & SSN research Centre (SSNRC),SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM during 13 July to 15 July 2022.
 15. T.Vigneswari, **G.Kanthimathi** and Lakshmanan Muthulakshmi, presented a paper entitled “Green Synthesis of Silver Nanoparticles Using Azadirachta Indica and its Enhanced Antibacterial Activity”, International Conference on Functional Materials and Nanotechnology (ICFMN-2K22), Organized by Nehru Institute of Technology, Coimbatore, 20 July, 2022 & 21 July, 2022.
 16. Hana Tadesse, **G.Kanthimathi** Raji Fayisa, Ponnusamy Thillai Arasu, Segni Asafa, presented a paper entitled “**Antibacterial studies and characterization of newly synthesized ZnO/ZnS/CuS ternary nanocomposite**”, 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, February 9-10, 2023.
 17. T.Vigneswari*, **G.Kanthimathi**, Lakshmanan Muthulakshmi, presented a paper entitled “**Superparamagnetic properties of iron oxide nanoparticles using vitex negundo leaf extract by green synthesis method and its antimicrobial activity against wound pathogen**”, 2023 International Conference on Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023) organized by KPR Institute of Engineering and Technology, Coimbatore, Tamil Nadu, India, February 9-10, 2023.
 18. T.Vigneswari,, **G.Kanthimathi**,, Lakshmanan Muthulakshmi presented a paper entitled “Green synthesis and Potential antibacterial applications of silver nanoparticles using aqueous leaf extract Ocimum tenuiflorum” 7 International Conference on Nanoscience and Nanotechnology (ICONN-2023) (Virtual Conference) organized by The Department of Physics and Nanotechnology SRM Institute of Science and Technology, Kattankulathur, March 27-29, 2023.
 19. M. Muralisankar, **G. Kanthimathi** and **O. Senthilkumar** presented a paper entitled “Undoped and Ag doped TiO₂ nanoparticles by sol-gel method for antimicrobial activity” International Conference on Sustainable Technology in Civil Engineering and Applied Sciences (ICSTCA-2023) organized by Department Of Civil Engineering and Science & Humanities, RAMCO Institute of TEchnology, Rajapalayam on 24 & 25 MARCH 2023.

20. Omod Ojulu, **G.Kanthimathi***, Raji Fayisa, Ponnusamy Thillai Arasu presented a paper entitled “ Sensitivity and selectivity detection studies of Fe(III) using newly synthesized fluorescent Cu(I) complex of Schiff Base material derived from 2, 2'-bipyridine and trans cinnamic acid” in International Conference on Advanced Materials Modern Manufacturing and Computerized Automation (IAMMCA-2023)”,organized by Department of Mechanical Engineering 23-06-2023 & 24-06-2023.
21. Zelalem Enawugaw Desalegn, Raji Feyisa Bogale, Ponnusamy Thillai Arasu, **G.Kanthimathi** and Segni Asafa Ashanapresented a paper entitled “Assessment of the levels of certain heavy metals in fish specimens from Fincha, Amerti, and Nashe (FAN) lakes of Horo Guduru , Oromia , Ethiopia” ,2nd International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2023] conducted on 29th& 30th December 2023, organized by ISET Research India in association with Maejo University Thailand & Saigon University Vietnam.
22. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2008), EDTA assisted uptake of Nickel(II) ions using commercial activated carbon,National Seminar on "Theoretical and Chemical Sciences (TACS-2008), Annamalai University,Chitambaram,22-23 February 2008.
23. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2009), Sol -gel Combustion Synthesis of Silica Encapsulated iron oxide Nanocomposite for water softening,1st Internaitonal Conference on Nanostructured materials and Nanocomposites,Institute of Macrtomolecular Science and Engineering,256,Kottayam,6-9 April 2009
24. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2011),Effective Removal of Copper ion by Synthetic Fe₃O₄,Chennai Chemistry Conference -2011,111,IIT Madras,11-13 February 2011
25. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2011),Removal of Cobalt (II) ion from Aqueous solutions using Synthetic Nano Fe₃O₄ and Macro Fe₃O₄- A comparaativestudy,International Conference on Advanced Materials,Thin Films and Nanomaterials,(183),978-935-059-049-2 ,PSG College of Technology,Coimbatore,12-16 December 2011.Macmillan Publishers India Ltd.
26. G.Kanthimathi, M.Kottaisamy and P.Kotteeswaran(2012),Atomic Absorption Spectral Studies on the Removal of Lead(II) ion by using Synthetic Nano and Micro Fe₃O₄,International Conference on Recent Trends in Advanced Materials ICRAM 2012,139,VIT, Vellore, 20-22 February 2012
27. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran(2013),Atomic Absorption Spectral Studies on the Removal of Cu(II) ion by using Synthetic Nano and Micro Fe₃O₄,National Seminar on Technologically Important Crystalline and Amorphous Solids,129, 978-81-921319-0-0 ,Kalasalingam University,1-2 March 2013
28. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2013),“Effective Removal of co-existing Nickel, Cobalt, Lead and Copper ions using Commercial Activated Carbon,Second National conference on Advanced Functional Materials and Applications,62,978-81-921319-2-4,Macmillan publishers indiaLtd,Kalasalingam University,22-23rd March 2013
29. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2013),”A comparative Study on the Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of the Lead (II) ions”,InternationalConference On Emerging Trends in Chemical Sciences,248,VIT, Vellore, 5-7 December 2013.
30. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2013),A comparative Study on the Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial Activated Carbon Towards the Removal of the Cobalt (II) ions,Chennai Chemistry Conference - 2013,87 ,Central Leather Institute,Chennai,8-10 February 2013.
31. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2014),Adsorption Efficiency of Synthetic Nano Iron Oxide and Commercial activated Carbon Towards the Removal

- of Cu (II) ions – Comparative Study, International Conference on Advances in New Materials (ICAN 2014), 3 University of Madras, Chennai, 20-21 June 2014
32. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2015), Efficient Synthesis of Nano Iron Oxide Fe₃O₄ (SNIO) by Acid-Base Hydrolysis, National Conference on Innovations in Engineering, Science and Technology, Ramco Institute of Technology, Rajapalayam 6-7 March 2015
 33. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2015), Adsorption Studies For The Removal Of Ni(II), Co(II), Cu(II) And Pb(II) Ions Using Synthetic Nano Iron Oxide (SNIO), International Conference on Magnetic Materials & Applications (ICMAGMA – 2015), 2-4 December 2015.
 34. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2017), Role of Nanomaterial's for Environmental Protection, Second National Conference on Innovations in Engineering, Science and Technology, 24-25, March 2017
 35. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2018), Industrial Effluent Treatment Using Encapsulated Nano Iron Oxide (Fe₃O₄), Recent Trends in Nano biosensors (NBS 2018), 68, Department of Inorganic Chemistry, University of Madras, Chennai, 22-23rd February.
 36. G.Kanthimathi, M.Kottiasamy and P.Kotteeswaran (2018), Synthetic Nano Iron oxide is superior for the removal of Co(II) ions than commercial activated carbon and Macro Iron oxide, International conference on Advances in New Materials, 8-9 June 2018.
 37. G.Kanthimathi, M.Kottiasamy, P.Thillai Arasu and P.Kotteeswaran (2018), Kinetic Studies on Heavy metal removal using Nano iron oxide, Science, Technology and Innovation Application and Transfer for Development Endeavors, 32, Wollega University, Nekemte, Ethiopia, 22-23 June 2018
 38. N.Gokulnath, S.Jayaharish, A.C. Logha Sundhar, G.Kanthimathi and D.Darling Helen Lydia (2019), "Groundwater Treatment In and Around Sivakasi Taluk Using Nanomaterials", Proceedings of the International Conference on Advanced Topics in Interdisciplinary Research in chemistry and Physics (ICAT_IRCP) 2019, 54, Departments of Chemistry and Physics, Sri.S.Ramasamy Naidu Memorial College, Sattur.

5. Short term Courses / Seminars /FDP/Workshop/Conference Attended: 100

6. Short term Courses / Seminars /FDP/Workshop/Conference organized: 10

7. Online Courses: 20

8. Patents filed/awarded:

1. Dr. Wasudeo Balaji Gurnule, **Dr. G. Kanthimathi**, Dr. B. Kalyani, Dr. R. Sivakumar, . Dr. Kurapati Swarnalatha published a patent titled "**Method For The Synthesis of Mixed Nanoscale Composite Using Low Cost Precursors**" on 18 Feb 2022, Patent Number: 202221003745
2. S.Ravikumar, Usha Batra, Jaskiran Kaur, Ravi Pratap Singh, **G.Kanthimathi**, Lakshmi Thangavelu, Monica Apte, Tapan Kumar Sahu published a patent titled "**Infant Warmer**" on 3 August 2022, Patent number: 367143-001 **granted on 18.01.2023**
3. B.Prathibha B S, **G.Kanthimathi**, F.Sujata F Harlapur, F. Shantabasavareddi Harlapur, S. Bind published a patent titled "A Volatile Components Collection Unit with Incineration of Crude Plant Materials" on 13.01.2023. (Application Number: 202341001510).
4. Patent granted for S.Jeyanthi, A.Arun Kumar, S.Kannan, **G.Kanthimathi and O.Senthil Kumar** entitled "Multi Terminal Corrosion Free Service Line Clamp" on 01.02.2024, Patent Number: 516892. (Granted)
5. M.Ananda Kumar, R.Umapriya, . Shaik Raziya, **M.Venkatesh Perumal**, S.Pameswari, S.Suresh and M.Sudhakar published a patent entitled "**Compositions and Methods for Inhibiting Amyloid Fibril Aggregation**". Application

Updated as on 05.06.2026

No.202541015737 A; Date of filing of Application :23/02/2025; **Publication Date: 07.03.2025.**

6. M.Ananda Kumar, **M.Venkatesh Perumal**, **G. Kanthimathi**, B. Vahini, I. R. Saravana kumar, T. Vigneswari and R. Kalaivani applied for a design patent entitled “**A Bottle for Chemical Storage**”. **Date of filing of application: 30.04.2025.**
Granted: August 2025

9. Membership in Professional societies : IIST

10. Awards, Recognition & Achievements:

Highly cited article: This certificate is awarded to Registered charity number: 207890

1. “Novel 1,3,5-triazine-based pyrazole derivatives as potential antitumor agents and EFGR kinase inhibitors: synthesis, cytotoxicity, DNA binding, molecular docking and DFT studies” New Journal of Chemistry, 2021, 45, 13909, M. S. Raghu, C. B. Pradeep Kumar, M. K. Prashanth, K. Yogesh Kumar, B. S. Prathibha, **G. Kanthimathi**, Siham Abdulrahman Alissa, Hanan Abdulrahman Alghulikah and SamehM. Osman, New Journal of Chemistry, 2021, 45, 13909, **For publishing research in the top 10% of highly cited works from the Royal Society of Chemistry Journals.**
2. Received Best Teacher National Award In recognition of remarkable achievements in Teaching, Research and Publications by IRDP group of Journals, Chennai.
3. Received Best Women Faculty Award In recognition of her outstanding dedication, excellence in teaching, and significant contributions to academic and Institutional development, National Foundation For Innovative Scientific Research and Technology (MSME Registered, Recognized by Govt. of India)

GUEST LECTURE

1. **Dr.G. Kanthimathi** delivered a Guest lecture on “ **Classroom Innovation Lab**” for One day School Teacher Development Programme For High School & Higher Secondary School Teachers of Mathematics and Sciences organised by S& H Department of Ramco Institute of Technology in association with Rotary Club, Rajapalayam on 19.5.2026
2. **Dr.G.Kanthimathi** delivered a guest lecture on “ **Integrated Approach In Science and Technology for a Sustainable Future**” conducted by Department of Chemistry Shree Chandraprabhu Jain College, Minjur, Chennai on **3 days Online webinar for the celebration of National Science Day 2022.** on 01.03.2022
3. **Dr.G.Kanthimathi** delivered a guest lecture on “ **Path Towards Embedding Lab Safety** “for the **One-day workshop on Lab Safety & Management** organized by Department of Biotechnology School of Bio, Chemical and Processing Engineering Kalasalingam Academy of Research and Education on 20 April 2022.
4. Dr.G.Kanthimathi, ASP delivered a guest lecture on “ Safety Measures in Chemistry Laboratory” on the occasion of Five Days International Virtual Seminar on Chemistry-2023 (18.02.2023 to 24.02.2023) organized by Department of Chemistry Shree Chandraprabhu Jain College, Minjur, Chennai in association with IQAC in collaboration with ASIAN INSTITUTE OF FAMILY MANAGED BUSINESS on 22.02.2023
5. **Dr.G.Kanthimathi** delivered a guest lecture on “ **Integrated Approach In Science and Technology for a Sustainable Future**” conducted by Department of Chemistry Shree Chandraprabhu Jain College, Minjur, Chennai on **3 days Online webinar for the celebration of National Science Day 2022.** on 01.03.2022
6. **Dr.G.Kanthimathi** delivered a guest lecture on “ **Path Towards Embedding Lab Safety** “for the **One-day workshop on Lab Safety & Management** organized by Department of Biotechnology School of Bio, Chemical and Processing Engineering Kalasalingam Academy of Research and Education on 20 April 2022.

Updated as on 05.06.2026

7. **Dr.G.Kanthimathi** acted as a Chairperson for the **IUCEE Mini-Symposium on "Smart, Clean, Green, and Sustainability"** under the theme **Water Management** on 05 Feb 2022.
8. **Dr.G.Kanthimathi** acted as a Session Chair for “Third International Conference on Science, Technology and Management – ICSTM 2023” organized by Global Conference HUB, KCT Tech Park, Coimbatore, Tamil Nadu India on 27.08.2023.

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties):

- **Dr.G.Kanthimathi**, Professor reviewed an article entitled “**Fabrication of Nanoporous Polystyrene Fibers using a Single Solvent via Electrospinning**” 2025 7th International Conference on Materials Science and Manufacturing Technology on 04.09.2025.
- **Dr.G.Kanthimathi**, Professor reviewed an article entitled “**Numerical Investigation of Stiffened Light Gauge Steel Channel Sections under Compression: with and without concrete infill** ” 2025 7th International Conference on Materials Science and Manufacturing Technology on 04.09.2025.
- **Dr.G.Kanthimathi**, Professor reviewed an article entitled “**Durability assessment of High-Strength Concrete incorporating nano materials and quartz sand exposed to acidic and sulphate environments**” 2025 7th International Conference on Materials Science and Manufacturing Technology on 04.09.2025.
- **Dr.G.Kanthimathi**, Professor reviewed an article entitled “**Morphological and Physiological Characterisation of Bacterial Isolates for the Degradation of Malathion**” 2024 Second International Conference on Recent Trends in Engineering and Technology on 03.12.2024.
- **Dr.G.Kanthimathi, Professor/Chemistry** reviewed an article entitled “Physical and Upconversion photoluminescence Properties in Nd³⁺ -Yb³⁺ Doped Lead Borate Glasses at 980 nm Excitation” Material Science Forum on 04.06.2024
- **Dr.G.Kanthimathi, Professor/Chemistry** reviewed an article entitled “ Improving Epoxy Resin Performance with Sepiolite and Al₂O₃ Doped Sepiolite: Flame Retardancy and Thermal Stability “, Material Science Forum on 04.06.2024.
- **Dr.G.Kanthimathi, Professor/Chemistry** reviewed an article entitled “Discovery of novel 2-substituted 2, 3-dihydroquinazolin-4(1H)-one derivatives as tubulin polymerization inhibitors for anti-cancer therapy: The in vitro and in vivo biological evaluation” in European Journal of Medicinal Chemistry on 30.05.2024 (Manuscript Number: EJMECH-D-24-01422R1)
- **Dr.G.Kanthimathi, ASP/Chemistry** reviewed a paper titled “**Antimicrobial Polyvinyl Alcohol / Neem oil Flexible Film for Food Packaging Applications**” (MATPR-D-23-02810) in Material Today's Proceedings Elsevier on 16.04.2023.
- **Dr.G.Kanthimathi ASP\Chemistry** has reviewed the paper “**Zno codoped with Si and Mn Preparation characterization and photocatalytic reduction of hazardous chromium (IV) by the codoped Zno**” in Material Today Proceedings, Elsevier on 22.10.2022
- **Dr.G.Kanthimathi ASP \Chemistry** reviewed a paper titled “**Analysis of Water Quality Using Physico-Chemical Parameters** -”IUCEE Mini-Symposium on "Smart, Clean, Green, and Sustainability" on 15 Jan 2022.
- **Dr.G.Kanthimathi ASP \Chemistry** reviewed a paper titled “**Performance Evaluation Of In-Vessel Composter For Organic Fractions Of VVCE Mens Hostel – A Case Study**”-IUCEE Mini-Symposium on "Smart, Clean, Green, and Sustainability" on 15 Jan 2022.

- Dr.G.Kanthimathi ASP \Chemistry reviewed a paper titled”**Irrigation Water Management with Micro Irrigation in Lift Irrigation Schemes**”-IUCEE Mini-Symposium on "Smart, Clean, Green, and Sustainability" on 15 Jan 2022.
 - Acted as a Reviewer for the conference International Conference KGC-2019 (Kalasalingam Global Conference 2019) on 18-20 December 2019 at Kalasalingam Academy of Research and Education, Tamil Nadu.
- other duties**
- Coordinator in Centre For Women Welfare (2018-2022)
 - Fine Arts & Cultural Club (2022-till date)
 - Chairperson for POSH Cell
 - Chairperson for Internal Compliant cell
 - Time Table in charge
 - Faculty Member in Charge for preparation of College Magazine
 - Class Adviser
 - Mentor
 - Coordinator for NAAC Criteria-I
 - Coordinator for NBA-X
 - Domain coordinator
 - RIT RC Member
 - Newsletter In charge
 - ISO Internal Auditor