

Dr.M.FRANCKLIN PHILIPS

Assistant Professor,
Department of Chemistry,
Bishop Heber College,
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Web:

Qualification

| Degree | Branch | Institution / University | Year of Passing |
|--------|-----------|--------------------------|-----------------|
| Ph.D | Chemistry | Alagappa University | 2006 |
| M.Sc | Chemistry | Bharathidasan University | 2001 |
| B.Sc | Chemistry | Bharathidasan University | 1999 |

Ph.D. Details

| Title of Thesis | Area of Specialization |
|---|---|
| Electrochemical Deposition of Copolymers of Diphenylamine With 2-amino benzonitrile/3-amino benzonitrile and Characterization | Conducting Polymers |
| Research Supervisor Dr.A. Gopalan | Research Centre Alagappa University |
| | Year of Award December and 2006 |

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|--|---|---------------|---|
| Obtained Post Doctoral Fellowship : | Yes | Agency | Researcher, Research Institute of Advanced Energy Technology |
| Host Institution : | Kyungpook National University, South Korea | | |

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|--|---|---------------|---|
| Obtained Post Doctoral Fellowship : | Yes | Agency | Researcher, Research Institute of Advanced Energy Technology |
| Host Institution : | Kyungpook National University, South Korea | | |

Work Experience

| Name of Institution | Address of Institution | Designation | From | To |
|-------------------------------|--|---------------------|----------------|-------------|
| SPIC Science Foundation | Center For Energy Research, Sri Venkateswara College of Engineering Campus, Sriperumbudur, Chennai | Scientist | 03.12.2007 | 31.08.2009 |
| Kyungpook National University | Research Institute of Advanced Energy Technology, Kyungpook National University Daegu, South Korea | Researcher | 11.12.2009 | 31.08.2012 |
| Catholic University of Daegu | Department of Advanced Energy Material Science and Engineering, Catholic University of Daegu, South Korea | Assistant Professor | 01.09.2012 | 31.08.2014 |
| Bishop Heber College | Department of Chemistry Trichy | Assistant Professor | 25.09.2014 | Till Date |
| Alagappa University | Department of Industrial Chemistry, Alagappa University | Resource Person | November, 2001 | April, 2007 |

Teaching / Research Experience

U.G. : 11 years **P.G. :** 14 years 5 m **M.Phil.** 7 years and **Ph.D.** 2 years

Research Guidance

U.G. : 3 **P.G. :** 20 **M.Phil. :** 2 **Ph.D. :** 2

Field Experience

| Type | Name of the Sector | Designation | From | To |
|----------|-------------------------|-------------|-----------|-----------|
| Industry | SPIC Science Foundation | Scientist | 12/3/2007 | 8/31/2009 |

Table of Contents

| | | |
|-----|---|--------------|
| 1. | Conferences / workshops / Seminars Attended | 56 |
| 2. | Research Papers Presented | 0 |
| 3. | Publication in Journals | 23 |
| 4. | Publication in Books | 0 |
| 5. | Books Published / Edited | 0 |
| 6. | Conferences / Workshops / Seminars Organised | 0 |
| 7. | Research Projects | 2 |
| 8. | Resource Person | 2 |
| 9. | Consultancy | 0 |
| 10. | Awards Recieved | 0 |
| 11. | Patent | 0 |
| 12. | Extension Activities Undertaken | 0 |
| 13. | Professional Membership | 0 |
| 14. | M.Phil. / Ph.D. Produced | 0 / 2 |

1. International level Conference on **"International Conference on Chemical Sciences and Nanomaterials (ICCSN-2019)"** sponsored by Vellore Institute of Technology organized by VIT at Vellore during 07/03/2019 to 09/03/2019.
2. International level Conference on **"International Conference on Advanced Nanomaterials"** sponsored by Department of Chemistry, Alagappa University organized by Department of Chemistry, Alagappa University at Karaikudi during 26/02/2018 to 27/02/2018.
3. International level Conference on **"International Conference on Materials for Energy and Environment"** sponsored by Department of Chemistry, Loyola College organized by Department of Chemistry, Loyola College at Chennai during 22/02/2018 to 23/02/2018.
4. International level Conference on **"International Conference on Chemical and Environmental Research (ICCER 2015)"** sponsored by organized by at Jamal Mohamed College, Trichy during 17/12/2015 to 17/12/2015.
5. International level Conference on **"The 4th International Conference on New and Renewable Energy 2014"** sponsored by organized by at Daegu, S.Korea during 27/03/2014 to 29/03/2014.
6. International level Conference on **"Nanomaterials: Application & Properties 2013"** sponsored by organized by at Ukraine during 16/09/2013 to 21/09/2013.
7. International level Conference on **"The 4th International Conference on New and Renewable Energy 2013"** sponsored by organized by at Daegu, S.Korea during 28/03/2013 to 30/03/2013.
8. International level Conference on **"The 48th Convention of The Korean Society of Analytical Sciences, phoenixpark"** sponsored by organized by at Pyeong Chang, S.Korea during 17/05/2012 to 18/05/2012.
9. International level Conference on **"48th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Pyeong Chang, South Korea during 17/05/2012 to 18/05/2012.
10. International level Conference on **"The 109th General meeting of the Korean Chemical Society"** sponsored by organized by at Gyeonggi-do, Ilsan, S.Korea during 25/04/2012 to 27/04/2012.
11. International level Conference on **"International Conference on New and Renewable Energy 2012"** sponsored by organized by at Daegu, S.Korea during 16/03/2012 to 17/03/2012.
12. International level Conference on **"47th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Gyeongju, South Korea during 17/11/2011 to 28/11/2011.
13. International level Conference on **"47 Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Gyeongju during 17/11/2011 to 28/11/2011.
14. International level Conference on **"The 47th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Gyeongju, S.Korea during 17/11/2011 to 28/11/2011.
15. International level Conference on **"The 5th Asia-pacific symposium on Ion Analysis"** sponsored by organized by at Guilin, China during 03/11/2011 to 06/11/2011.
16. International level Conference on **"5th Asia-pacific symposium on Ion Analysis"** sponsored by organized by at China during 03/11/2011 to 06/11/2011.
17. International level Conference on **"5 Asia-pacific symposium on Ion Analysis"** sponsored by organized by at Guilin, China during 03/11/2011 to 06/11/2011.

18. International level Conference on **"108th Autumn meeting of the Korean Chemical Society"** sponsored by organized by at Daejeon Convention Center, S.Korea during 28/09/2011 to 30/09/2011.
19. International level Conference on **"The 108th Autumn meeting of the Korean Chemical Society"** sponsored by organized by at Daejeon Convention Center, S.Korea during 28/09/2011 to 30/09/2011.
20. International level Conference on **"46 Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at South Korea during 19/05/2011 to 20/05/2011.
21. International level Conference on **"The 46th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Mopko, S.Korea during 19/05/2011 to 20/05/2011.
22. International level Conference on **"46th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Mopko, South Korea during 19/05/2011 to 20/05/2011.
23. International level Conference on **"46Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Mopko, South Korea during 19/05/2011 to 20/05/2011.
24. International level Conference on **"107th National Meeting of the Korean Chemical Society"** sponsored by organized by at S.Korea during 28/04/2011 to 29/04/2011.
25. International level Conference on **"The 107th National Meeting of the Korean Chemical Society"** sponsored by organized by at Jeju, S.Korea during 28/04/2011 to 29/04/2011.
26. International level Conference on **"107 National Meeting of the Korean Chemical Society"** sponsored by organized by at Jeju during 28/04/2011 to 29/04/2011.
27. International level Conference on **"2nd International Conference on New and Renewable Energy (ICNRE)"** sponsored by organized by at Daegu, South Korea during 08/04/2011 to 08/04/2011.
28. International level Conference on **"The 2nd International Conference on New and Renewable Energy (ICNRE)"** sponsored by organized by at Daegu, S.Korea during 08/04/2011 to 08/04/2011.
29. International level Conference on **"The 45th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Jeju, S.Korea during 18/11/2010 to 19/11/2010.
30. International level Conference on **"45th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Jeju, South Korea during 18/11/2010 to 19/11/2010.
31. International level Conference on **"The 106thNational Meeting of the Korean Chemical Society"** sponsored by organized by at Daegu, S.Korea during 29/10/2010 to 30/10/2010.
32. International level Conference on **"106thNational Meeting of the Korean Chemical Society"** sponsored by organized by at Korea during 29/10/2010 to 30/10/2010.
33. International level Conference on **"106 National Meeting of the Korean Chemical Society"** sponsored by organized by at Daegu, S.Korea during 29/10/2010 to 30/10/2010.
34. International level Conference on **"106National Meeting of the Korean Chemical Society"** sponsored by organized by at South Korea during 29/10/2010 to 30/10/2010.

35. International level Conference on **"International Conference on New and Renewable Energy (ICNRE)"** sponsored by organized by at Daegu, S.Korea during 14/05/2010 to 01/01/1900.
36. International level Conference on **"44th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Yongpyong during 13/05/2010 to 14/05/2010.
37. International level Conference on **"The 44th Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Yongpyong, S.Korea during 13/05/2010 to 14/05/2010.
38. International level Conference on **"44 Convention of The Korean Society of Analytical Sciences"** sponsored by organized by at Yongpyong, South Korea during 13/05/2010 to 14/05/2010.
39. International level Conference on **"105 National Meeting of the Korean Chemical Society"** sponsored by organized by at Incheon, Korea during 29/04/2010 to 30/04/2010.
40. International level Conference on **"105th National Meeting of the Korean Chemical Society"** sponsored by organized by at Incheon, South Korea during 29/04/2010 to 30/04/2010.
41. International level Conference on **"The 105th National Meeting of the Korean Chemical Society"** sponsored by organized by at Incheon, S.Korea during 29/04/2010 to 30/04/2010.
42. International level Conference on **"International Conference on Nanomaterials and its applications (ICNA – 2007)"** sponsored by organized by at National Institute of Technology, Trichy during 04/02/2007 to 06/02/2007.
43. International level Conference on **"97th National meeting of the Korean Chemical Society"** sponsored by organized by at Seoul- South Korea during 20/04/2006 to 21/04/2006.
44. International level Conference on **"96th National meeting of the Korean Chemical Society"** sponsored by organized by at Wonju, South Korea during 21/10/2005 to 22/10/2005.
45. International level Conference on **"The 95th National meeting of the Korean Chemical Society"** sponsored by organized by at Incheon during 22/04/2005 to 22/04/2005.
46. International level Conference on **"Symposium on Analytical Science and Technology"** sponsored by organized by at South Korea during 27/05/2004 to 29/05/2004.
47. International level Conference on **"Symposium on Analytical Science & Technology"** sponsored by organized by at South Korea during 27/05/2004 to 29/05/2004.
48. International level Conference on **"The 93rd National Meeting of the Korean Chemical Society"** sponsored by organized by at Seoul, South Korea during 22/04/2004 to 23/04/2004.
49. International level Conference on **"The 93rd National Meeting of the Korean Chemical Society"** sponsored by organized by at Seoul, South Korea during 22/04/2004 to 23/04/2004.
50. International level Conference on **"Symposium on Analytical Sciences, Inje University, South Korea"** sponsored by organized by at South Korea during 13/12/2003 to 13/12/2003.
51. International level Conference on **"Symposium on Analytical Sciences"** sponsored by organized by at Inje University, South Korea during 13/12/2003 to 13/12/2003.

52. International level Conference on "**Seventh International symposium on Advances in electrochemical science and technology (ISAEST-VII)**" sponsored by organized by at Chennai during 01/01/2002 to 01/01/2002.
53. International level Conference on "**Seventh International symposium on Advances in electrochemical science and technology (ISAEST-VII)**" sponsored by organized by at Chennai during 01/01/2002 to 01/01/2002.



1. **"Facile synthesis of Co₃O₄@ SeNPs grafted MWCNTs Nanocomposite for high energy density supercapacitor and antimicrobial applications"** published in Chemical Physics Impact (PEER REVIEW) Vol. 7, Issue No. , June 2023 ISSN : 2667-0224.
2. **"A Facile Hydrothermal Synthesis of MWCNT(SH)/CeO₂@Se Nanohybrid Materials with Enhanced Antimicrobial Activity"** published in BioNanoScience (PEER REVIEW) Vol. 12, Issue No. , February 2022 ISSN : 2191-1630.
3. **"Synthesis of Nanocomposites of V₂O₅@Selenium Nanoparticles and Multiwalled Carbon Nanotubes for Antimicrobial Activity"** published in Journal of Nanoscience and Nanotechnology (PEER REVIEW) Vol. 21, Issue No. 11, November 2021 ISSN : 1533-4880.
Impact factor , Scopus Index , h - index , Citation index 1
4. **"Synthesis of Nanocomposites of V₂O₅@Selenium Nanoparticles and Multiwalled Carbon Nanotubes for Antimicrobial Activity"** published in Journal of Nanoscience and Nanotechnology (PEER REVIEW) Vol. 21, Issue No. 11, November 2021 ISSN : 1533-4880.
Impact factor , Scopus Index , h - index , Citation index 1
5. **"Synthesis of Nanocomposites of V₂O₅@Selenium Nanoparticles and Multiwalled Carbon Nanotubes for Antimicrobial Activity"** published in Journal of Nanoscience and Nanotechnology (PEER REVIEW) Vol. 21, Issue No. 11, November 2021 ISSN : 1533-4880.
Impact factor , Scopus Index , h - index , Citation index 1
6. **"A kinetic study on the formation of poly(4 aminodiphenylamine)/copper nanocomposite using UV-visible spectroscopy"** published in Spectrochim. Acta, Part A (SELECT) Vol. 116, Issue No. , January 2013 ISSN : 1386 - 1425.
7. **"Facile one-pot synthesis of poly(4-aminodiphenylamine)/copper nanocomposite and electrocatalytic oxidation of ascorbic acid"** published in J. Nanoelectron. Optoelectron. (SELECT) Vol. 8, Issue No. , January 2013 ISSN : 1555-130X.
8. **"Development of a novel cyano group containing electrochemically deposited polymer film for ultrasensitive simultaneous detection of trace level cadmium and lead"** published in J. Hazard. Mater (SELECT) Vol. 237- 238, Issue No. , January 2012 ISSN : 0304-3894.
9. **"Poly(diphenylamine-co-3-aminobenzonitrile) Loaded with Palladium Nanoparticles: A New Oxygen Reduction Reaction Electrocatalyst for Fuel Cells"** published in J. Nanoelectron. Optoelectron. (SELECT) Vol. 7, Issue No. , January 2012 ISSN : 1555-130X.
10. **"Influence of medium on the nanostructure and properties of poly(4-aminodiphenylamine)-silver nanocomposites"** published in Polymer International (SELECT) Vol. 61, Issue No. , January 2012 ISSN : 0959-8103.
11. **"Preparation of poly(4-aminodiphenylamine)/silver nanoparticles composite and catalysis"** published in J. Mater. Sci.-Mater. El., (SELECT) Vol. 23, Issue No. , January 2012 ISSN : 0957- 4522.

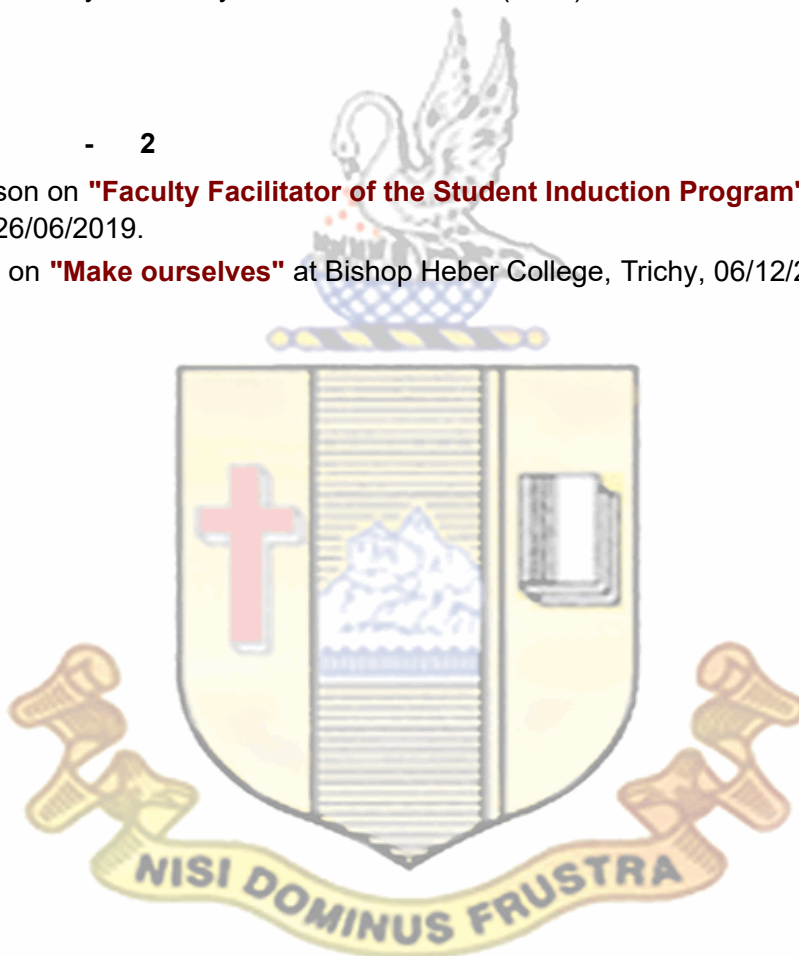
12. **"Enhanced electrocatalytic performance of cyano groups containing conducting polymer supported catalyst for oxidation of formic acid"** published in Catalysis Communications (SELECT) Vol. 12, Issue No. , January 2011 ISSN : 1566- 7367.
13. **"Development of Gold-nanoparticle-dispersed Multiwalled Carbon Nanotubes as Electrocatlysts for Direct Methanol Fuel Cells"** published in J. Nanoelectron. Optoelectron., (SELECT) Vol. 6, Issue No. , January 2011 ISSN : 1555-130X.
14. **"Course of poly(4-aminodiphenylamine)/Ag nanocomposite formation through UV-vis spectroscopy"** published in Spectrochim. Acta, Part A (SELECT) Vol. 79, Issue No. , January 2011 ISSN : 1386 - 1425.
15. **"Poly(diphenylamine-co-3-aminobenzonitrile)/Palladium as a New Nanocatalyst for Borohydride Fuel Cells"** published in J. Nanoelectron. Optoelectron. (SELECT) Vol. 5, Issue No. , January 2010 ISSN : 1555-130X.
16. **"Sulfonated Polyether Sulfone-Poly(vinylidene fluoride) Blend Membrane for DMFC Applications"** published in J. Appl. Poly. Sci (SELECT) Vol. 117, Issue No. , January 2010 ISSN : 0021-8995.
17. **"Chemical oxidative grafting of conducting poly(N-methyl aniline) onto polyethylene terephthalate"** published in J. Appl. Polym.Sci (SELECT) Vol. 95, Issue No. , January 2005 ISSN : 0021-8995.
18. **"UV-Visible spectroscopy for following the kinetics of homogeneous polymerization in toluene sulfonic acid"** published in Spectrochim. Acta Part A (SELECT) Vol. 62, Issue No. , January 2005 ISSN : 1386 - 1425.
19. **"Microstructure and thermal behaviour of poly(o-anisidine)/poly(ethylene terephthalate) composite"** published in Polymer J (SELECT) Vol. 37, Issue No. , January 2005 ISSN : 0032-3896.
20. **"Fe³⁺ ion sensing characteistics of poly(diphenyl amine)- Electrochemical and spectroelectrochemical analysis"** published in Sens. Actuators B: Chem (SELECT) Vol. 105, Issue No. , January 2005 ISSN : 0925 – 4005.
21. **"Electrochemical, spectroelectrochemical and spectroscopic evidences for copolymer formation between diphenylamine and m-toluidine"** published in Mater. Chem. Phys. (SELECT) Vol. 85, Issue No. , January 2004 ISSN : 0254 – 0584.
22. **"Copolymer formation between two N-substituted anilines -Electrochemical and Spectroelectrochemical studies"** published in J. Macromol. Sci-Pure Part - A and Appl. Chem A (SELECT) Vol. 41, Issue No. , January 2004 ISSN : 1060-1325.
23. **"Electrocatalytic oxidation of methanol using poly(4-aminodiphenylamine)- copper nanocomposite electrode"** published in J. Nanoelectron. Optoelectron. (SELECT) Vol. 10, Issue No. , January 1900 ISSN : 1555-130X.

RESEARCH PROJECTS - 2

1. Minor project entitled **"Novel Fe₃O₄@poly(2-aminothiophenol)-grafted-multiwalled carbon nanotube core/shell nanocomposite for the detection of heavy metals"** (*PRINCIPAL INVESTIGATOR*), Sponsored by University Grants Commission (UGC), New Delhi, during 01/07/2017 to 6/30/2019 [Completed].
2. Minor project entitled **"Novel Fe₃O₄@poly(2-aminothiophenol)-grafted-multiwalled carbon nanotube core/shell nanocomposite for the detection of heavy metals"** (*PRINCIPAL INVESTIGATOR*), Sponsored by University Grants Commission (UGC), New Delhi, during 01/01/2017 to Till Date [Ongoing].

RESOURCE PERSON - 2

1. College level Chair Person on **"Faculty Facilitator of the Student Induction Program"** at Bishop Heber College, Trichy, 26/06/2019.
2. College level Workshop on **"Make ourselves"** at Bishop Heber College, Trichy, 06/12/2017.



Signature of Staff
(M.FRANCKLIN PHILIPS)