




# Valliammai Engineering College

SRM Nagar, Kattankulathur-603203, Kancheepuram District, Tamil Nadu

TEL : 044 - 27454784 / 726, FAX : 044 - 27451504

## Department of Chemistry

### Personal Details

<b>Name :</b>	Ms. M. Meera	
<b>Designation :</b>	Assistant Professor (O.G)	
<b>Educational Qualification :</b>	M.Sc., M.Phil., B.Ed., (Ph.D)	
<b>Experience:</b>	12 years 7 months	
<b>Area of Specialization :</b>	Chemistry	
<b>Date of Birth :</b>	02/03/1984	
<b>Date of Joining :</b>	12/06/2009	
<b>Email ID :</b>	<a href="mailto:Meeram.chemistry@valliammai.co.in">Meeram.chemistry@valliammai.co.in</a>	
<b>Contact Numbers :</b>	9790167831, 044-27454784	

### Educational Details

S.No	Degree	Branch/Specialization	Institution / University	Year
1	B.Sc.,	Chemistry	Bharathi women's college Chennai/ Madras university	2004
2	M.Sc.,	Chemistry	Queen mary's college chennai./ Madras university	2006
3	M.Phil.,	Chemistry	Annamalai university	2009
4	B.Ed.,	-	V. S. Isaac college of education/ Tamil Nadu Teachers Education University	2012
5	Ph.D	Chemistry	Anna University, Chennai	Pursuing

### Professional Society Memberships

1. Indian Association of Crystal Growth: Life Member
2. Association of Chemistry teachers: Life Membe.
3. Indian Society of Technical Education-Life member
4. Indian Science Congress – Annual member

### Publication Details

#### Journals:

1. V. Arivalagan, L. Devaraj Stephen, **M. Meera**, S.G. Gunasekaran, 'Carbazole Terminal Phenylene core Imine Skeletal Nanosilica reinforced Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', Journal of Polymer Research, vol. 28, 381, 2021 (Impact Factor:3.097)

#### Conferences:

1. Presented a paper titled "Removal of colour caused by metal ion through carbon adsorbtion" at National Seminar on the concepts of green Chemistry in Valliammai Engineering college, 18<sup>th</sup> April 2015.

2. Presented a paper titled "Removal of colour caused by metal ion through carbon adsorbent at "National Seminar on Recent Advances in Chemistry" organized by Department of Chemistry, Kandaswami Kandar's College, Velur during Aug13-14, 2015.
3. Presented a paper titled "Removal of heavy metal ion from aqueous solution by activated carbon prepared from poovarasu leaves" at NCAFM 2017 organized by Department of Chemistry, St. Joseph College of Engineering, Chennai.
4. S.G.Gunasekaran, **M. Meera**, V. Arivalagan, 'Multi-Walled Carbon Nanotube Reinforced Phenyl Pendant Pyridine Core Polybenzoxazine (MWCNT/PBZ) Nanocomposites', National Virtual Conference on Recent Advances in Materials Science (NVCRAMS) 2021 organized at St. Peter's Institute of Higher Education and Research, Chennai held on 7<sup>th</sup> October 2021.
5. V. Arivalagan, **M. Meera**, L. Devaraj Stephen, S. G. Gunasekaran, Dielectric and thermal studies of arene based imine skeletal nanotitania reinforced polybenzoxazine nano composites', National Virtual Conference on Recent Advances in Materials Science (NVCRAMS) 2021 organized at St. Peter's Institute of Higher Education and Research, Chennai held on 7<sup>th</sup> October 2021.
6. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Nanosilica Reinforced Pyrenyl Pendent Pyridine core Imine Skeletal Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', National Virtual Conference on Recent Advances in Materials Science (NVCRAMS) 2021 organized at St. Peter's Institute of Higher Education and Research, Chennai held on 7<sup>th</sup> October 2021.
7. S.G.Gunasekaran, **M. Meera**, V. Arivalagan, 'Nanosilica Reinforced Maleimido Terminal Pyrenyl Pendant Pyridine Core Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Nanocomposites', International Virtual Conference on Chemical Research for Sustainable Development (ICCRSD-2021) organized by SRM Institute of Science and Technology, Ramapuram, Chennai during 24-26<sup>th</sup> September 2021.
8. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Nanotitania Reinforced Maleimido Terminal Phthalide Cardo Chain Extended Imine Skeletal Polybenzoxazine (nTiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', International Virtual Conference on Chemical Research for Sustainable Development (ICCRSD-2021) organized by SRM Institute of Science and Technology, Ramapuram, Chennai during 24-26<sup>th</sup> September 2021.
9. V. Arivalagan, **M. Meera**, L. Devaraj Stephen, S. G. Gunasekaran, 'Synthesis and Thermal Studies of Imine Skeletal Nanotitania Reinforced Polybenzoxazine Nano Composites', International Virtual Conference on Chemical Research for Sustainable Development (ICCRSD-2021) organized by SRM Institute of Science and Technology, Ramapuram, Chennai during 24-26<sup>th</sup> September 2021.
10. S.G.Gunasekaran, L. Devaraj Stephen, P. Maheswari, **M. Meera**, V. Arivalagan, 'Design and Development of Multi-Walled Carbon Nanotube reinforced Pyridine Core based Polybenzoxazine (MWCNT-PBZ) Nanocomposites', International e-Conference on Advanced Materials (ICOAM-2021) organized by J. P. College of Arts and Science, Tenkasi during 24-26<sup>th</sup> September 2021.
11. V. Arivalagan, **M. Meera**, L. Devaraj Stephen, S. G. Gunasekaran, 'Arene Based Imine Skeletal Nanotitania Reinforced Polybenzoxazine (nTiO<sub>2</sub>/PBZ) Nano Composites', International e-Conference

on Advanced Materials (ICOAM-2021) organized by J. P. College of Arts and Science, Tenkasi during 24-26<sup>th</sup> September 2021.

12. **M. Meera**, V. Arivalagan, T. Amirthavarshini, S.G. Gunasekaran, 'Nanosilica reinforced Maleimido terminal Phthalide Cardo chain Extended Imine skeletal polybenzoxazine (nSiO<sub>2</sub>/PBZ) hybrid nanocomposites', International e-Conference on Advanced Materials (ICOAM-2021) organized by J. P. College of Arts and Science, Tenkasi during 24-26<sup>th</sup> September 2021.
13. L. Devaraj Stephen, S.G. Gunasekaran, V. Arivalagan, **M. Meera**, 'Visible Light driven Photocatalysis in Co<sup>III</sup>(pn)<sub>2</sub>Cl(L)<sup>2+</sup>/nm-TiO<sub>2</sub> systems with Binary Solvent Mixtures', International e-Conference on Advanced Materials (ICOAM-2021) organized by J. P. College of Arts and Science, Tenkasi during 24-26<sup>th</sup> September 2021.
14. S.G.Gunasekaran, **M. Meera**, V. Arivalagan, 'Structurally Designed Nanotitania Reinforced Imine Skeletal Maleimido Terminal Phenylene Core Polybenzoxazine (nTiO<sub>2</sub>/PBZ) Nanocomposites', International Conference on Recent Innovations in Science, Engineering & Technology-ICRISET-2021' organized by from Jeppiaar Institute of Technology, held during 30/07/2021 to 31/07/2021.
15. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Nanotitania reinforced Thiophenyl Pendent pyridine core Imine skeletal Polybenzoxazine (nTiO<sub>2</sub>/PBZ) hybrid nanocomposites', International Conference on Recent Innovations in Science, Engineering & Technology-ICRISET-2021' organized by from Jeppiaar Institute of Technology, held during 30/07/2021 to 31/07/2021.
16. S.G.Gunasekaran, **M. Meera**, L. Devaraj Stephen, V. Arivalagan, 'Nanosilica reinforced Pyrenyl Pendant Pyridine Core Imine Skeletal Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', International Conference on Current Trends in Material Science and Technology (CTMST-2021) organized by Nehru Institute of Technology, held on 26th July 2021.
17. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Imine Linked Phenyl Based Polymers and Nanosilica Reinforced Polybenzoxazine (nSiO<sub>2</sub>/PBZ)Nano Composites', International Conference on Current Trends in Material Science and Technology (CTMST-2021) organized by Nehru Institute of Technology, held on 26th July 2021.
18. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Multi-Walled Carbon Nanotube Reinforced Pyridine Core Phenyl Pendent Polyimide (MWCNT/PI) Nanocomposites', International Conference on Current Trends in Material Science and Technology (CTMST-2021) organized by Nehru Institute of Technology, held on 26th July 2021.
19. S.G.Gunasekaran, **M. Meera**, L. Devaraj Stephen, V. Arivalagan, 'Multi-Walled Carbon Nanotube reinforced Maleimido Terminal Phenylene Core Imine Skeletal Based Polybenzoxazine (MWCNT/PBZ) Hybrid Nanocomposites', 'International Virtual Conference on Advances in Chemistry and Materials (ICCM-2021)' organized at Saveetha Engineering College, held during 21/07/2021 to 22/07/2021.

20. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Nanotitania Reinforced Imine Skeletal Phenyl Based Polybenzoxazine (nTiO<sub>2</sub> /PBZ) Nano Composites', 'International Virtual Conference on Advances in Chemistry and Materials (ICCM-2021)' organized at Saveetha Engineering College, held during 21/07/2021 to 22/07/2021.
21. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Nanosilica reinforced Thiophenyl Pendent pyridine core Imine skeletal Polybenzoxazine (nSiO<sub>2</sub>/PBZ) hybrid Nanocomposites', 'International Virtual Conference on Advances in Chemistry and Materials (ICCM-2021)' organized at Saveetha Engineering College, held during 21/07/2021 to 22/07/2021.
22. S.G.Gunasekaran, **M. Meera**, V. Arivalagan, 'Carbazole Terminal Pyrenyl Pendant Pyridine Core Imine Skeletal Based Polybenzoxazine-Nanosilica (nSiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021) organized by GITAM (Deemed to be University, during 28-30<sup>th</sup> June 2021.
23. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Synthesis, Characterisation and Studies on Arene Based Imine Skeletal Polybenzoxazine and Nanosilica Reinforced Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Nano Composites', International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021) organized by GITAM (Deemed to be University, during 28-30<sup>th</sup> June 2021.
24. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Dielectric Materials Based on Nanotitanium Reinforced Imine Skeletal Polyimide (nTiO<sub>2</sub>/PI) Nano Composites', International e-Conference on Developments in Chemical, Biological and Environmental Sciences (DCBES-2021) organized by GITAM (Deemed to be University, during 28-30<sup>th</sup> June 2021
25. S. G. Gunasekaran, V. Arivalagan, **M. Meera**, 'Maleimido Terminal Phenylene Core Nanotitania Reinforced Polybenzoxazine (nTiO<sub>2</sub>/PBZ)Nanocomposites', 2<sup>nd</sup> International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering (ICSA 2021) organized at SRM Valliammai Engineering College, Kattankulathur held on 10<sup>th</sup> April 2021.
26. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Carbazole Terminal Pyridine Core Nanosilica Reinforced Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Hybrid Nanocomposites', 2<sup>nd</sup> International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering (ICSA 2021) organized at SRM Valliammai Engineering College, Kattankulathur held on 10<sup>th</sup> April 2021.
27. **M. Meera**, V. Arivalagan, S. G. Gunasekaran Dielectric Materials Based On Nanosilica Reinforced Imine Skeletal Polyimide (nSiO<sub>2</sub>/PI) Nano Composites', 2<sup>nd</sup> International Conference on Smart Automation in Computer, Electrical, Electronics and Communication Engineering (ICSA 2021) organized at SRM Valliammai Engineering College, Kattankulathur held on 10<sup>th</sup> April 2021.
28. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Cardanol pendent thiophenyl end capped Imine skeletal MWCNT reinforced polyimide (MWCNT/PI) Nanocomposites from Cashew nut shell liquid (CNSL)', International Conference on Nanoscience and Nanotechnology (ICONN 2021) organized at SRM Institute of Science and Technology, Kattankulathur held during 1-3 Feb 2021.

29. S. G. Gunasekaran, V. Arivalagan, **M. Meera**, 'Nanotitania Reinforced Imine Skeletal Polybenzoxazine (nTiO<sub>2</sub>/PBZ) Nanocomposites', International Virtual Conference on Advances in Chemical Sciences-2020 organized at Easwari Engineering College, Chennai held on 13<sup>th</sup> & 14<sup>th</sup> August 2020.
30. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Dispersion Studies of Nanosilica Reinforced Imine Skeletal Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Nano Composites', International Virtual Conference on Advances in Chemical Sciences-2020 organized at Easwari Engineering College, Chennai held on 13<sup>th</sup> & 14<sup>th</sup> August 2020.
31. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Design and development of Polybenzoxazine reinforced Cardanol pendent Thiophenyl end capped Imine skeletal Titanium dioxide (PBZ/TiO<sub>2</sub>) Nanocomposites', International Virtual Conference on Advances in Chemical Sciences-2020 organized at Easwari Engineering College, Chennai held on 13<sup>th</sup> & 14<sup>th</sup> August 2020.
32. S. G. Gunasekaran, V. Arivalagan, **M. Meera**, 'Dispersion Studies of Imine Skeletal Arene Based Nanotitania Reinforced Polybenzoxazine (nTiO<sub>2</sub>/PBZ) Nano Composites', International Web Conference on Recent Trends In Scientific Research, organized at Dr Ambedkar Government Arts College, Chennai, held during 3-4 August 2020.
33. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Imine Skeletal Arene Based Polymers and Nanosilica Reinforced Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Nano composites', International Web Conference on Recent Trends In Scientific Research, organized at Dr Ambedkar Government Arts College, Chennai, held during 3-4 August 2020.
34. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Cardanol Pendant Aromatic Diamine End Capped MWCNT Reinforced Polyimide (MWCNT/PI) Nanocomposites from Cashew Nut Wastes', International Web Conference on Recent Trends In Scientific Research, organized at Dr Ambedkar Government Arts College, Chennai, held during 3-4 August 2020.
35. S. G. Gunasekaran, V. Arivalagan, **M. Meera**, 'Carbazole Pendent Cyanate Ester co-cured skeletal modified Maleimide End capped Benzoxazine Hybrid Blend', International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET) organized at Jeppiaar Institute of Technology, held during 24-25 July 2020.
36. V. Arivalagan, **M. Meera**, S. G. Gunasekaran, 'Nanosilica Reinforced Imine Skeletal Arene Based Polybenzoxazine (nSiO<sub>2</sub>/PBZ) Nano Composites', International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET) organized at Jeppiaar Institute of Technology, held during 24-25 July 2020.
37. **M. Meera**, V. Arivalagan, S. G. Gunasekaran, 'Multi-Walled Carbon Nanotube reinforced Cardanol pendent Thiophenyl end capped Imine skeletal Polybenzoxazine (MWCNT/PBZ) Nanocomposites from Cashewnut Shell Liquid', International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET) organized at Jeppiaar Institute of Technology, held during 24-25 July 2020.

38. T. Amithavarshini, **M. Meera**, V. Arivalagan, S. G. Gunasekaran, ‘Cardanol Pendent Aromatic Diamine End Capped Imine Skeletal Boron Phosphate Reinforced Polyimide (Bpo4 /Pi) Nano Composites From Cashew Nut Wastes’, International Conference on Recent Innovations in Science, Engineering and Technology (ICRISET) organized at Jeppiaar Institute of Technology, held during 24-25 July 2020.
39. S. G. Gunasekaran, L. Devaraj Stephen, **M. Meera**, V. Arivalagan, Nanotitania Reinforced Imine Skeletal Maleimido Terminal Phenylene Core Polybenzoxazine ( $n\text{TiO}_2/\text{PBZ}$ ) Nanocomposites’, International Conference on the Web on Scope of Research in Science Post Covid-19, organized at Bharathi Women’s College (Autonomous) Chennai, held on 21<sup>st</sup> June 2020.
40. **M. Meera**, S. G. Gunasekaran, ‘Cardanol Pendent Thiophenyl End Capped Imine Skeletal Nanotitania Reinforced Polybenzoxazine ( $n\text{TiO}_2/\text{PBZ}$ ) Nanocomposites from Cashewnut Wastes’, International Conference on 'Emerging Trends in Materials for Energy and Biological Applications' (ICEMEBA 2020) organized at M. Kumarsamy College of Engineering, Karur, held on 7<sup>th</sup> March 2020.
41. **M. Meera**, S. G. Gunasekaran, ‘Design and Development of Pyrenyl Pendent Aromatic Diamine MWCNT reinforced Polyimide (MWCNT/PI) Nanocomposites’, National Conference on recent trends in chemistry of materials (NCRTCM’2019) organized at Bannari Amman Institute of Technology, Sathyamangalam, Erode Dt. held during 11-12 October 2019.
42. **M. Meera**, S. G. Gunasekaran, Thiophenyl Pendent Cardanol End Capped Imine Skeletal Nanosilica Reinforced Polybenzoxazine ( $n\text{SiO}_2/\text{PBZ}$ ) Nanocomposites’, International Conference on recent Advances in Applied Chemical Sciences (ICRAACS’2019) organized at Sree Sevugan Annamalai College, Devakottai held during 6<sup>th</sup> September 2019..
43. **M. Meera**, S. G. Gunasekaran, ‘Cardanol Pendent Thiophenyl end capped Imine skeletal Nanosilica reinforced Polybenzoxazine ( $n\text{SiO}_2/\text{PBZ}$ ) Nanocomposites from Cashew nut Wastes’, International Conference on Sustainable Technologies for Industrial Hazardous Waste Management and Bioenergy organized at SRM University, Kattankulathur held during 7-9 August 2019.

### Research and Development Details

1. No. of Guest Lecture organized : 7
2. No. of Seminars organized : 2
3. No. of Conference organized: 1

### Other Particulars

1. No. of STTP/FDP Attended: 10
2. Guest Lecture Organised: 07
3. NPTEL Online Courses: Certificate awarded.
4. NITTT Online Course completed (NITTTTR Chennai): 1 Module

