

Faculty profile

Faculty Name :Dr. Nishad K. M.
Designation :Assistant Professor
PEN :733769
Department :Chemistry
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Experience Details :

Sl. No.	Positions held	Name of the Institute	From	To
1.	Guest Lecturer	Govt. Higher Secondary School, Erumapetty, Thrissur, Kerala, India	July 2010	February 2011
2.	Guest Lecturer	St. Thomas College, Thrissur, Kerala, India	19-08-2011	29-03-2012
3.	Technical Assistant	Regional Chemical Examiners Laboratory, Kakkanad, Ernakulam, Kerala, India	01-08-2014	11-11-2015
4.	Higher Secondary School Teacher in Chemistry	Govt. Higher Secondary School, Edappal, Malappuram, Kerala, India & GHSS Maloth Kasba, Kasargoad, Kerala, India	12-11-2015	03-11-2017
5.	Assistant Professor in Chemistry	Govt. College Chittur, Palakkad, Kerala, India, PIN-678104	04-11-2017	Continuing

Educational qualifications

Course	University/ Institution and Year
B.Sc. Chemistry	University of Calicut, Malappuram, Kerala, India
M.Sc. Chemistry	University of Calicut, Malappuram, Kerala, India
Ph.D	Cochin University of Science & Technology,

	Cochin-22, Kerala, India
B.Ed Physical Science	MG University, Kottayam, Kerala, India
UGC-NET Chemical Science	Qualified in 2010
UGC- JRF Chemical Science	Qualified in 2011
Graduate Aptitude Test in Engineering	Qualified in 2012
State Eligibility Test	Qualified 2014

Broad Area of Research : Synthesis of mechanophores, Self healing polymers

Publications (Newest first)

1. Domino intermolecular and intramolecular Diels-Alder reaction sequence for expedient construction of a pentacyclic network, K. M. Nishad, C. S. Aswathi, P.A. Unnikrishnan, T. S. Saumya, Chemical Data Collections 28 (2020) 100404.
2. Expeditious synthesis of novel mechanophore-linked poly(methyl methacrylate) by Cu(0)-mediated single-electron transfer living radical polymerization under mild condition, **Nishad, K. M.**; Rani, J.; Philip, K.; Prathapan, S. Proceedings of Prof. K V Thomas Endowment “International Symposium on New Trends in Applied Chemistry”(NTAC–2017), Research and Postgraduate Department of Chemistry, Sacred Heart College, Thevara, Kochi, Kerala, India. **ISBN 978-81-930558-2-3**
3. Synthesis of Photochromic Dibenzobarrelenes, Saumya, T. S.; Aswathi, C. S.; **Nishad, K. M.**; Prathapan, S; Unnikrishnan, P. A. Proceedings of “International Conference on Materials for the Millennium” MATCON 2016, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, Kerala, India. **ISBN 978-93-80095-738**
4. Cost Effective Synthesis of a Biologically Active Decapeptide on Hydrophilic Polymer Support by Solid Phase Peptide Synthesis, Rohini, K, C.; **Nishad, K. M.**; John, V, D.; Subashchandran, K. P. Proceedings of “International Conference on Materials for the Millennium” MATCON 2016, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, Kerala, India. **ISBN 978-93-80095-738**

Paper Presentations

SI No	Title of paper	Name of Conference
1.	Synthesis of Novel Mechanoresponsive Healable Anthracene-bismaleimide adduct derived Mechanophore incorporated Poly(methyl methacrylate) through Diels–Alder Unclick/Click Chemistry via Single Electron Transfer-Living Radical Polymerization	International conference on Chemistry and Physics of Materials-2018, Post Graduate and Research Department of Chemistry, St. Thomas College Thrissur, Kerala, India
2.	Synthesis of Mechanoresponsive Healable Polymers through Diels–Alder Unclick/Click Chemistry via Single Electron Transfer-Living Radical Polymerization	International Conference on Advances in Material science, ICAMS-2018, Post Graduate Department of Chemistry, Sree Sankara College, Kalady, Ernakulam, Kerala, India.
3.	Synthesis of Anthracene-Maleimide adduct derived mechanophore incorporated poly(methyl methacrylate) by Single Electron Transfer-Living Radical Polymerization at room temperature in the presence of air.	National Seminar on Current Trends in Chemistry CTric-2017, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, Kerala, India.
4.	Investigation of ultrasound-induced mechanochemical transduction of novel mechanoresponsive healable three arm star poly(methyl methacrylate)	International conference on emerging frontiers in chemical science-2017, Post Graduate and Research Department of Chemistry, Farook College, Kozhikode, Kerala, India. ISBN No. 978-93-5279-617-5
5.	Stress–responsive Poly(methyl methacrylate) via covalently embedding novel mechanophore based on anthracene and bismaleimide.	National Seminar on Emerging Trends in Chemical Research-2017, Research and Post Graduate Department of Chemistry, Christ College, Irinjalakkuda, Keala, India.
6.	Single Electron Transfer-Living Radical Polymerisation of methyl methacrylate with activated Cu(0) wire in the presence of air under mild	Science Academies' Lecture Workshop on Advances in Supramolecular Chemistry and Nanoscience-2017, Research and PG Department of

	condition,	Chemistry, St. Joseph's College, Irinjalakkuda, Thrissur, Kerala, India.
7.	Synthesis of Thermally Reversible Ethanoanthracene/Trismaleimide Trifunctional Cross-Linker for Self Healing Polymer through Diels-Alder Click-Unclick Tool	National Seminar on Current Trends in Chemistry CTric-2017, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, Kerala, India.
8.	Self-healing polymeric materials:- A review	International Conference on Advances in Material science, ICAMS-2013, Post Graduate Department of Chemistry, Sree Sankara College, Kalady, Ernakulam, Kerala, India.
9.	Site selective Diels-Alder reaction of 9-(2-furylmethoxymethyl) anthracene	National Seminar on Current Trends in Chemistry CTric-2013, Department of Applied Chemistry, Cochin University of Science and Technology, Kochi, Kerala, India.

Areas Of Interest :

- Organic Chemistry
- Physical Chemistry
- Organic Spectroscopy

Field of Research :

- Synthesis of mechanophore
- Self healing polymers and Stress sensing polymers
- Mechanochromic materials

Academic & Administrative Responsibilities

- Admission Core Committee - Member
- University Examination Committee - Member
- Purchase Committee – Member
- Scholarship Cell – Member

Any other details to specify:

- Talent hunt Shastrajalakam, KSCSTE - Resource person
- Kollengode Sub District Level Science Seminar, General Education Department – Judging panel member