

CURRICULAM VITAE

- Name** : Dr.S.Sahila
- Education** : M.Sc, M.Phil, Ph.D
- 2019** : Ph.D in Chemistry, Anna University, Chennai
- Title of Thesis:** *Synthesis and Characterization of Polybenzoxazine-Graphene-Metal Oxide Nanocomposites*
- Supervisor: Dr.L.S.Jayakumari
- Thesis awarded on 17th June 2019
- 2010** : M.Phil in Chemistry, Anna University, Chennai.
- Title of Thesis:** *Synthesis, Characterization and Corrosion Protection Properties of Terpolymers containing benzimidazole moieties on brass in Artificial Sea Water.*
- 2007** : M.Sc., Chemistry, A.V.C. College,
Mannampandal, Mayiladuthurai,
Bharathidasan University, Tiruchirappalli, 8.35 (CGPA),
- 2004** : B.Sc., Chemistry, A.D.M.College, Nagapattinam
Bharathidasan University, Tiruchirappalli, 88.33%,
University 1st Rank
- 2001** : HSC (Class XII), State Board
- Marks Obtained: 83.08% %, First Class
- 1999** : SSLC (Class X), State Board
- Marks obtained: 85%, First Class

PUBLICATIONS

- ❖ “A green approach for the development of functionalized graphene and cardanol-based polybenzoxazine nanocomposite” **Sahila Sambandam**, Prabhu Nallamuthu, Jayakumari

Lakshmanan Saraswathi, *Polymer Composites*, 2021, 42, 9, 4318-4327 (Impact Factor : **3.171**)

- ❖ “Preparation of a portable calorimetry kit and one-step spectrophotometric nanomolar level detection of L-Histidine in serum and urine samples using sebacic acid capped silver nanoparticles” Surulivel Gokul Eswaran, M.A. Ashkar, M.H. Mamat , **S. Sahila**, Venkataramanan Mahalingam , H.V.S.R.M. Koppiseti , N. Vasimalai , *Journal of Science: Advanced Materials and Devices*, 2020 (Impact Factor: **3.783**)
- ❖ “Development of insitu generated graphene/ benzoxazine –epoxy nanocomposite for capacitor applications” **S.Sahila**, L.S.Jayakumari, *Polymer composite*, 2015, 36, 1-7. (Impact Factor: **2.265**)
- ❖ “Graphene oxide – Cardanol based polymer benzoxazine nanocomposite as high dielectric strength material for Electrical applications” **S.Sahila**, L.S.Jayakumari, *Advanced Composite letters*, 2015 (Impact Factor: **0.630**)
- ❖ “Synthesis, Characterization and corrosion protection properties of terpolymers derived from poly (MAn –co-MMA) containing benzimidazole derivatives as pendant group” Anne Pauline, **S.Sahila**, C.Gopalakrishnan, S.Nanjundan, N.Rajendran, *Progress in Organic coatings* 2011,72, 443-452. (Impact Factor:**4.469**)

Research Interests (Specializations)

- ❖ Polymer Nanocomposites & Green Synthesis

Courses taught (PG for the past 5 years):

- ❖ Chemistry of Natural Products
- ❖ Medicinal Chemistry
- ❖ Basic concepts in organic chemistry
- ❖ organometallic compounds
- ❖ Electrochemistry and Spectroscopy
- ❖ Polymer chemistry
- ❖ Organic reaction mechanisms
- ❖ Coordination Chemistry

Awards

- ❖ Awarded Senior Research fellowship (SRF) by CSIR, Govt.of India
- ❖ Qualified National Eligibility Test (NET) 2012 in Chemical Sciences. All India Rank 41
- ❖ Chidambaram R.Sivanandam Ammal Memorial Scholarship for best student in M.Sc Chemistry.

- ❖ Attended summer Training course in Chemistry at IGCAR Kalpakkam from 26th May to 07th July 2006.
- ❖ Secured University 1st Rank in Undergraduate Program

Presentations

- ❖ Presented a paper in Third international conference on Natural polymers, Bio-polymers, Bio-Materials, their Composites, Blends, IPNs, Polyelectrolytes and Gels: Macro to Nano Scales, organized by Mahatma Gandhi University Kerala.
- ❖ Presented a paper in national conference on Advances in Plastics and Rubber Technology –APART 2015, Department of Rubber and Plastics Technology, MIT Campus, Anna University.

Administrative Positions

- ❖ Serving as an Assistant Professor i/c since 2016.
- ❖ Chair Person for the department syllabus revision committee.