

Dr. A. KUMARAVEL, M.Sc, M.Phil, B.Ed, Ph.D

Assistant Professor (Senior Grade),
Department of Chemistry
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Educational qualifications

Ph.D., Chemistry(2013): Pursued on “**Studies on electroanalysis of pesticides**”, at Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, India and degree awarded by Bharathidasan University, Tiruchirappalli, Tamil Nadu, India - **Highly Commended**

M.Phil., Chemistry (2008), Periyar University, Salem, Tamil Nadu, India - **First Class**

B.Ed, Education (2007), Madras University, Chennai, Tamil Nadu, India – **First Class with Distinction**

M.Sc., Chemistry (2005), Bharathiyar University, Coimbatore, Tamil Nadu, India – **First Class with Distinction**




B.Sc., Chemistry (2003), Bharathiyar University, Coimbatore, Tamil Nadu, India –**First Class with Distinction**

H.S.C (2000), Sakthi Hr.Sec. School, Sakthi Nagar, Erode
S.S.L.C (1998), Govt. High School, Athani, Erode

Additional qualification

UGC-State Eligibility Test (SET) for lectureship conducted by Govt. of Tamil Nadu.

Awards and Honours

-  **CSIR- Senior Research Fellowship** for Ph.D program by Council of Scientific and Industrial Research(CSIR) , New Delhi, India.
-  One of my research articles got a place in “**Top 25 hottest articles**” in journal of electroanalytical chemistry.
-  My research work was released in “**Vertical News**”

Work experience

- ✚ Worked as an **Assistant Professor** at Gobi Arts and Science College, Gobichettipalayam from 17.06.2013 to 31.03.2015
- ✚ **Served as an Editorial board member** in “ News Letter”- a monthly magazine published from Gobi Arts and Science College, Gobichettipalayam
- ✚ Worked as a Project Assistant in the project entitled “**Development of Electroanalytical sensor for pesticides analysis**, at CSIR- Central Electrochemical Research Institute, Karaikudi, Tamilnadu, India, Sponsored by Department of Science & Technology, New Delhi, India **from April 2008 to March 2011**
- ✚ Worked as a **Faculty of Chemistry and HOD In Charge** at Excel Engineering College, Komarapalayam, Namakkal (DT) from 10.05.07 to 14.04.08
- ✚ Worked as a **Deputy Warden** at Excel Engineering College, Komarapalayam, Namakkal (DT), From 10.05.07 To 14.04.08
- ✚ Worked as an **Exam Cell In-charge** at Excel Engineering College, Komarapalayam, Namakkal (DT) From 10.05.07 To 14.04.08
- ✚ Prepared **Chemistry Lab manual** for first year B.E, B. Tech students
- ✚ Framed Organic chemistry syllabus for **M.Sc(Chemistry) students** at Gobi Arts and Science College, Gobichettipalayam
- ✚ Served as a Programme officer in Citizen Consumer Club at Gobi Arts and Science College

Publications

- ✚ Electrochemical Determination of Chlorpyrifos on a Nano-TiO₂/ Cellulose Acetate Composite Modified Glassy Carbon Electrode
A. Kumaravel and M. Chandrasekaran
J. Agri. Food Chem. 63 (2015) 6150-6156.
- ✚ Electroanalysis of fenitrothion on modified glassy carbon electrode
A. Kumaravel and M. Chandrasekaran
Gascian J. Sci. and Appl. 1 (2013) 1-6.

- ✚ Development of electroanalytical sensor for γ -hexachlorocyclohexane based on a cellulose acetate modified glassy carbon electrode
A. Kumaravel, S. Vincent, M. Chandrasekaran
Anal. Methods 5 (2013) 931-938.

- ✚ Nanosilver/surfactant modified glassy carbon electrode for the sensing of thiamethoxam
A. Kumaravel, M. Chandrasekaran
Sensors and Actuators B 174 (2012) 380-388.

- ✚ Electrochemical determination of imidacloprid using nanosilver Nafion®/nanoTiO₂Nafion® composite modified glassy carbon electrode
A. Kumaravel, M. Chandrasekaran
Sensors and Actuators B 158 (2011) 319– 326.

- ✚ A biocompatible nano TiO₂/nafion composite modified glassy carbon electrode for the detection of fenitrothion
A. Kumaravel, M. Chandrasekaran
J. Electroanal. Chem. 650 (2011) 163–170.

- ✚ Stearic acid modified glassy carbon electrode for electrochemical sensing of parathion and methyl parathion
J. Nancy Nirmala, A. Kumaravel, M. Chandrasekaran
J ApplElectrochem (2010) 40:1571–157

- ✚ A novel nanosilver/nafion composite electrode for electrochemical sensing of methyl parathion and parathion
A. Kumaravel, M. Chandrasekaran
J. Electroanal. Chem. 638 (2010) 231–235.

Presentation in Conferences

- ✚ Paper presented on “ A novel and simple method for the synthesis of silver nanoparticles and their characterization” **A. Kumaravel** and M. Chandrasekaran in the UGC sponsored one day national seminar on “**Innovative trends in chemistry**” at Gobi Arts and Science College, Gobichettipalayam on 14th Feb 2014.

- ✚ Paper presented on “An electrochemical sensor for pesticides using chemically modified electrodes”, **A. Kumaravel, M. Chandrasekaran, 10th International Symposium on Advances in Electrochem.Sci.andTech., Jan.28-30, 2013, Chennai.**

- ✚ Paper presented on “Voltammetric detection of paraoxon at a nanosilver/nafion composite modified electrode”, **A. Kumaravel**, N. Nagendrakumar, M.Chandrasekaran, **9th International Symposium on Advances in Electrochem.Sci.andTech.**,Dec.2-4, 2010,Chennai – A 13 p.49.

Guest lectures

- ✚ A guest lecture was given on “Impact of pesticides on human health” for Kendriya Vidyalaya students during “International year of chemistry 2011” celebrations at CSIR-CECRI, Karaikudi

Hands on experience in analytical instruments

- ✚ Cyclic Voltammetry (Autolab, PGSTAT 30, Netherlands)
- ✚ FTIR / UV-Visible spectrometer
- ✚ High Performance Liquid Chromatography (HPLC) (Shimadzu, Japan)
- ✚ Gel Permeation Liquid Chromatography (GPC) (Shimadzu, Japan)
- ✚ Thermal analyserSDT Q 600 (TA Instruments)
- ✚ Exposure to analytical techniques: SEM, TEM, XRD, AFM, Thermal analysis

Workshops attended

- ✚ Attended two days UGC sponsored national workshop on “**Green Process Techniques for Industrial Applications**” at Alagappa University, Karaikudi-6
- ✚ Attended 5 days National workshop on “**Theory and Practice of X-Ray Diffraction techniques**” at AlgappaUniversity, Karaikudi-6
- ✚ Attended National workshop on “**Recent Trends in Electrochemistry**” at Central Electrochemical Research Institute, Karaikudi-6
- ✚ Attended National workshop on “**Open Source Drug Delivery(OSDD)**” at Central Electrochemical Research Institute, Karaikudi
- ✚ Attended National workshop on “**Principles & Practice of advanced EPR Spectroscopy**” at Central Electrochemical Research Institute, Karaikudi-6
- ✚ Attended one day orientation and training workshop on “ **The power to be your best**” at Sri Ramakrishna mission Vidyalaya College of Arts and Science, Coimbatore

Membership in professional bodies

Life member in Indian Society for Technical Education(ISTE)