



Dr. Renjini S

Assistant Professor of Chemistry

ADDRESS & EMAIL

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QUALIFICATION

MSc, B.Ed, MPhil., NET, PhD

DATE OF JOINING

10/06/2013

EXPERIENCE IN YEARS

7 years

AREA OF SPECIALIZATION

Catalysis & Electrochemistry

ADMINISTRATIVE DISTINCTION

- Member of Caste based Discrimination Prevention Cell
- PG admission Committee – Jt. Coordinator

PAPER PRESENTATIONS

- HEAM Scientist 2013, Dept. of Chemistry, University of Kerala, Kariavattom, Trivandrum.
- UGC sponsored National Seminar on ‘Recent trends in Bio-Nano Photonics’, at Dept. of Physics, SNCW, Kollam.
- ‘International Conference on Emerging Frontiers and Challenges in Chemistry’ (ICEFCC-2014), Dept. of Chemistry, All Saint’s College, TVM.
- UGC sponsored National Seminar on ‘Emerging Trends in Materials Science’, Dept. of Chemistry, SNCW, Kollam.
- 4th International Science Congress ISC-2014, Pacific University, Udaipur, Rajasthan.
- ‘Seminar on Green Chemistry-Environmental and Economic Benefits’, Dept. of Chemistry, FMNC, Kollam.
- UGC sponsored National Seminar on ‘Advanced Analytical Techniques’, (NSAAT2016), Dept. of Chemistry, Mar Ivanios College, TVM.
- ‘International Conference on Materials Science and Technology’, (ICMST-2016), Dept. of Physics, St. Thomas College, Palai, Kottayam.
- ‘National Conference on Materials Science and Technology’, (NCMST 2016), Dept. of Chemistry, IIST, Valiamala, Trivandrum.
- ‘Advances in the Frontier Areas of Chemical Sciences’, (NSAFC-2016), UGC sponsored National seminar, Dept. of Chemistry, St. John’s College, Anchal.

- ‘International Conference on Tropical plants and Molecular design’, (2017), Dept. of Chemistry, TKM college of Arts & Science, Kollam.
- ‘Emerging Trends in Chemical Research’, UGC sponsored National seminar, Dept. of Chemistry, Christ College, Irinjalikida.
- ‘Recent Trends in Advanced Chemistry Research’, (RTACR-2017), National seminar, Dept. of Chemistry, S.N College, Kollam.
- HEAM Scientist 2018, Dept. of Chemistry, University of Kerala, Kariavattom, Trivandrum.
- UGC sponsored National Seminar on ‘Frontline Approaches in Material Science and computational Chemistry’ [MATCOM-2018], Dept. of Chemistry, SNCW, Kollam.
- DST-SERB sponsored International conference on ‘Advanced Functional Materials’ [ICAFM-2018], Dept. of Chemistry, St.Berchmans College, Changanasseri.
- International symposium on ‘Advanced Functional Materials’ [ISAFM-2018], Dept. of Chemistry, Mar Ivanios College, Tvm.
- National seminar on ‘Recent Research and Developments in Chemistry’ [RRDC 2018], Dept. of Chemistry, BJM Govt. College, Chavara.
- International seminar on ‘Chemistry & Physics of Materials’, Dept. of Chemistry, St.Thomas College, Thrissur.
- 31st Kerala Science Congress on 2&3 February 2019, FMNC, Kollam.
- International conference on ‘Advanced Materials’ [ICAM 2019], Dept. of Physics, Nirmalagiri College, Kannur.
- International seminar on ‘Supra and nano chemistry of bio active molecules’ [SANCBAM 2019], Dept. of Chemistry, Christian College, Kattakkada.
- International seminar on ‘Recent Trends in Interdisciplinary Science’ [RTIS 2019], Dept. of Chemistry, The Standard Fireworks Rajaratnam College for Women, Sivakasi.
- National seminar on ‘Green approaches towards chemical synthesis’ [GACS 2019], Dept. of Chemistry, St. Gregorios College, Kottarakkara.
- International Seminar on Energy and Environment [ICEE 2K19] at Department of Chemistry, T KM College of Arts and Science.

PARTICIPATION IN SEMINARS/ CONFERENCES/ WORKSHOPS

- Two-day National Workshop on ‘Radiochemistry’ conducted in collaboration with Indian Association with Indian Association of Nuclear Chemist and Allied Scientists (SRC), C/O Indira Gandhi Centre for Atomic Research, Kalpakkam, at St. Gregorios College, Kottarakkara.
- UGC sponsored National seminar on ‘Application of Advanced Nano Materials’ (NSNANO-2014) organized by Dept. of Physics, SN College, Kollam.
- Seminar on ‘Spectroscopic Techniques for Organic & Inorganic Molecules’ at Govt. Arts College, TVM.
- UGC sponsored National Seminar on ‘Smart Materials’, Dept. of Chemistry, SN College, Sivagiri, Varkala.
- Seminar on ‘Advanced Polymer Materials’ at D.B College, Sasthamkotta.

- Participated in the cluster work shop for internal mentors of ‘Walk with a Scholar’ programme at BJM Govt. College, Chavara.
- National webinar on “Catalysis for Green Chemistry” organized by the Albertian Centre for Human Resource Development and Research, St. Albert’s College.
- International Webinar Lecture Series organized by the Department of Chemistry, St. Michael’s College, Cherthala, Alappuzha, Kerala.
- “International Webinar on Recent Advances in Chemical Science” jointly organized by Postgraduate & Research Department of Chemistry and Internal Quality and Assurance Cell (IQAC), Sree Narayana College, Kollam.

PUBLICATIONS IN BOOKS OR JOURNALS

- S. Renjini, T. Jyothish Kumar, K. Sreevalsan and V. Anitha Kumary, Electrochemical Behavior of Dopamine on a glassy carbon electrode modified by Graphene Chitosan Copper Composite, *Orient.J.Chem.*, 33(3), 1259-1264 (2017).
- T. Jyothish Kumar, S. Renjini, K. Sreevalsan and V. Anitha Kumary, Electrochemical determination of paracetamol based on Graphene – TiO₂ modified glassy carbon electrode, *Asian Journal of Chemistry*, 29, 5 (2017), 1098-1102.
- Renjini S, Pinky Abraham, Aparna S and V Anitha Kumary, Graphene palladium composite for the simultaneous electrochemical determination of epinephrine, ascorbic acid and uric acid, *J. Electrochem. Soc.*, 166(14), B1-B9 (2019). [DOI: 10.1149/2.0941914jes](https://doi.org/10.1149/2.0941914jes)
- S Renjini, Pinky Abraham, T Jyothishkumar, V Anitha Kumary and P G Chithra, Graphene oxide supported palladium nanoparticle as an electrochemical sensor for epinephrine, *AIP Conference Proceedings*, 2162, 020071 (2019). <https://doi.org/10.1063/1.5130281>
- Pinky Abraham, S Renjini, T E Mary Nancy, V Anitha Kumary and P G Chithra, A novel voltammetric sensor for morphine detection based on electrochemically synthesized poly(P-aminobenzenesulfonicacid)/reduced graphene oxide composite, *AIP Conference Proceedings*, 2162, 020058 (2019). <https://doi.org/10.1063/1.5130268>
- V Anitha Kumary, Pinky Abraham, Renjini S, B E Kumaraswamy, T E Mary Nancy and Aparna Sreevalsan, A novel catalyst based on reduced graphene oxide supported copper coordinated amino acid – A platform for morphine sensing, *J. Electroanal. Chem.*, 850 (2019) 113367. <https://doi.org/10.1016/j.jelechem.2019.113367>
- Pinky Abraham, S Renjini, T E Mary Nancy and V Anitha Kumary, Electrochemical synthesis of thin-layered graphene oxide-poly (CTAB) composite for detection of morphine, *J. Appl. Electrochem.*, <https://doi.org/10.1007/s10800-019-01367-2>

- Pinky Abraham, S Renjini, V Anitha Kumary and P G Chithra, An electrochemical based on electrodeposited CTAB film on glassy carbon electrode for detection of morphine, *Asian J. Chem.*, 32(1), 137-141 (2020). <https://doi.org/10.14233/ajchem.2020.22359>
- Pinky Abraham, Renjini S, Poornima Vijayan, Nish V, Krishna Sreevalsan V Anitha Kumary, Review—Review on the Progress in Electrochemical Detection of Morphine Based on Different Modified Electrodes, *J. Electrochem. Soc.*, 167 037559 (2020). [DOI: 10.1149/1945-7111/ab6cf6](https://doi.org/10.1149/1945-7111/ab6cf6)
- Renjini Sadhana, Pinky Abraham, and Anithakumary Vidyadhran, Solar Exfoliated Graphene Oxide: A platform for Electrochemical sensing of Epinephrine, *Current Anal. Chem.*, 16(4), 2020, 393-403. [DOI: 10.2174/1573411015666190104110928](https://doi.org/10.2174/1573411015666190104110928)

MEMBERSHIP IN PROFESSIONAL BODIES

- Member of Association of Chemistry Teachers (ACT)

CITATIONS AND INDEXING, IF ANY

▪ JOURNAL CITATIONS

- <https://www.scopus.com/authid/detail.uri?authorId=57193645113>
- https://scholar.google.com/citations?view_op=list_works&hl=en&user=TWZZ4QoAAAAJ&user=TWZZ4QoAAAAJ