

Dr. Salija P V

Assistant Professor

Department of Chemistry, S E S College, Sreekandapuram

Specialization: Materials Science

Professional Summary

Dedicated Assistant Professor with over seven years of teaching and research experience in higher education since November 2018. Specialized in Materials Science, with extensive expertise in teaching Inorganic, Physical, and Organic Chemistry, conducting research in advanced materials, mentoring students, developing curricula, managing laboratories, and undertaking academic administration. Currently serves as Purchase Convenor and Environmental Audit Convenor. Previously served as Union Advisor, Fine Arts Advisor, Staff Editor, and Alumni Coordinator, making significant contributions to the academic, administrative, and institutional development of the college.

Teaching & Research Experience

Assistant Professor | November 2018 – Present

- Deliver undergraduate and postgraduate courses in Inorganic, Physical, and Organic Chemistry.
- Contribute to curriculum development, laboratory management, departmental activities, and academic administration.
- Supervise undergraduate and postgraduate research projects and integrate digital teaching and learning technologies.
- Coordinate university practical examinations, evaluation, and valuation duties.

Academic Qualifications & National Certifications

- CSIR–UGC NET (Lectureship – Chemical Sciences), AIR 14
- Ph.D. in Chemistry, Kannur University
Thesis: BiVO₄ Nanomaterials and its Composites for Supercapacitor and Photocatalytic Applications
- M.Sc. in Chemistry, Kannur University
- B.Ed. in Physical Science, University of Calicut

Administrative Responsibilities

- Purchase and College development committee Convenor
- Students grievance and redressal committee member
- Discipline committee member
- Alumni Association committee member
- Environmental Audit Convenor
- Bus committee member

Peer-Reviewed Publications

1. Effect of cerium concentration on supercapacitor performance of BiVO₄ nanosheet Salija, P.V., Jinisha, B., Nisha, V.K. *et al.* . *J Mater Sci: Mater Electron* 36, 1636 (2025).
<https://doi.org/10.1007/s10854-025-15669-z>
2. Visible light sensitive BiVO₄–TiO₂ nanocomposites for photocatalytic dye degradation, Salija Padinjare Veetil, Jayendu Koodali Edam, Anusree Thavarool Puthiyadath, Sujith Kizhakke Veedu and Baiju Kizhakkekilikoodayil Vijayan, *Z. Phys. Chem.* 2024; *aop*, <https://doi.org/10.1515/zpch-2024-0794>.
3. Two dimensional BiVO₄–CdS nano composites for photocatalytic dye degradation Salija P. V, Sujith K V , Baiju K. V., *Journal of Physics: Conference Series* 2995 (2025) 012006,
[doi:10.1088/1742-6596/2995/1/012006](https://doi.org/10.1088/1742-6596/2995/1/012006)
4. Supercapacitor applications of cerium doped BiVO₄ nanosheets as electrode materials, Salija P. V, Nisha V, Sujith K V, Baiju Kizhakkekilikoodayil Vijayan, *AIP Conf. Proc.* 3198, 020131 (2025),
<https://doi.org/10.1063/5.0248453>
5. Effect of precursors in the supercapacitor performance of g-C₃N₄, Vattakkoval Nisha, Fabeena Jahan Jaleel, Manjacheri Kuppadakkath Ranjusha, Padinjare Veetil Salija, Neethu Raveendran M, Anjali Paravannoor, Baiju Kizhakkekilikoodayil Vijayan. *MRS Advances*, Volume 9(15), June 2024 . Lithium enriched poly (ethylene oxide) / poly (methyl methacrylate) blend polymer based solid electrolyte films for solid state lithium battery applications, Jinisha B., Salija P. V, Jayalekshmi Sankaran, *AIP Conf. Proc.* 3198, 020130 (2025) <https://doi.org/10.1063/5.0248606>.
7. Influence of Strontium Substitution on Ferroelectric–Relaxor Transition in PLZT (7/60/40)V, Priyadarsini, P. V. Salija, A. S. Divya, Viswanathan Kumar, *J. Am. Ceram. Soc.*, 93, 11, (2010),
<https://doi.org/10.1111/j.1551-2916.2010.04115.x>
8. Microwave hydrothermal method for the inclusion of Silicon on to Reduced Graphene oxide and its impact on supercapacitor behaviour, M K Ranjusha, Anjali Paravannoor, Fabeena Jahan Jaleel, V K Nisha, Deepthi panoth, Salija P. V, Baiju Kizhakkekilikoodayil Vijayan, *ECS J. Solid State Sci. Technol.*, (2025) <https://doi.org/10.1149/2162-8777/ae1f39>.

Book Chapter

- [1] Thulasi K M, Sindhu T M, Ranjusha M K, **Salija P. V**, Nisha V K, Shajesh P, Baiju K V, “Chapter 2: Atom Economy” in book ‘Green Chemistry and Applications’, ISBN: 9780429291166, (2020).

Faculty Development Programmes

- Refresher Course in Environmental Studies (Multidisciplinary), University of Calicut (6–19 October 2023).
- FDP on Outcome-Based Education (18–25 January 2023).
- Interdisciplinary Refresher Course in Advanced Research Methodology (22 May–5 June 2022).
- FDP on Research Methodology (20 July–3 August 2021).
- Faculty Induction Programme (18 May–17 June 2021).
- ERUDITION–2020 (23–28 May 2020).
- Managing Online Classes and Co-Creating MOOCs 2.0 (18 May–3 June 2020).

Conference Presentations

1. Photocatalytic Applications of Visible Light Active Inorganic Oxides – Oral presentation, National Seminar on Advanced Materials, School of Chemical Sciences, Kannur University, Payyanur Campus, 15–16 March 2018.
2. Photocatalytic Applications of $\text{BiVO}_4\text{--TiO}_2$ Composites – Oral presentation, National Seminar on Recent Advances in Chemistry, Government Brennan College, Dharmadam, 18–19 November 2019.
3. Properties and Applications of 2D Nanocomposites – Oral presentation, National Seminar on Current Trends in Scientific Research, Health of the Planet, Health of the People, Nehru Arts & Science College, Kanhangad, 31 October–1 November 2022.
4. Electrochemical Properties of Doped Bismuth Vanadates – Poster presentation, National Seminar on Spectroanalytical Techniques and Modelling (STAM 2023), Kannur University in association with ISAS Kerala Chapter, 4–6 October 2023.
5. Electrochemical Properties of Cerium-Doped Bismuth Vanadates – Poster presentation, 67th DAE Solid State Physics Symposium, Bhabha Atomic Research Centre (BARC), GITAM University, Visakhapatnam, 20–24 December 2023.
6. Photocatalytic Applications of $\text{BiVO}_4\text{--CdS}$ Composites – Poster presentation, International Conference on Advances in Functional Materials & Coatings (ICAFMC-2024), MES Ponnani College, 14–16 February 2024.
7. Supercapacitor Applications of $\text{BiVO}_4\text{--TiO}_2$ Nanocomposites as Active Electrode Materials – Oral presentation, INSIGHT 2025 International Conference on Integrating Disciplines for Sustainable Development, MES Keveeyam College, Valanchery, 21–23 January 2025.