

MOBILE +91 8891094100

PHONE +919846853979

EMAIL nihitalinson@sgcaruvithura.ac.in

EMAIL nihita164@gmail.com

LINKEDIN in.linkedin.com/in/nihitalinson-9859b21a9

SCHOLAR scholar.google.com/citations?user=WgWs-EYAAAAJ&hl=en

RESEARCHGATE researchgate.net/scientific-contributions/Nihita-Linson-2250529801

ORCID [0000-0002-9374-2497](https://orcid.org/0000-0002-9374-2497)

SCOPUS 58237885800

WOS QXI-8195-2026

VIDWAN <https://researchid.co/nihitalinson>



Dr. Nihita Linson MSc, PhD

Assistant Professor · Department of Chemistry

PROFILE

Dr. Nihita Linson's teaching focuses on student-centred and innovative approaches that connect fundamental concepts in chemistry with practical applications through interactive activities, laboratory experiences, presentations and digital learning tools. Her research interests centre on nanoscience and nanotechnology, spectroscopy, and the development of functional nanomaterials, with particular emphasis on sustainable materials, sensing, antimicrobial applications and sustainable food-packaging materials. Her major contributions include peer-reviewed research publications and book chapters in these areas, along with mentoring student projects and promoting innovation-oriented learning and research.

APPOINTMENT

Joined 20 January 2025 · **Teaching** 7 Years · **Industry** 0 Years · **Research** 4 Years

SPECIALISATION

Nanoscience and nanotechnology · Spectroscopy · Statistical thermodynamics · Group Theory · Organic Synthesis

RESEARCH INTERESTS

Dr. Nihita Linson's research interests focus on nanoscience and nanotechnology · functional nanomaterials · carbon-based nanomaterials · polymer nanocomposites · and sustainable materials. Her research explores the synthesis and characterization of nanomaterials for environmental sensing · antimicrobial and biomedical applications · and sustainable food-packaging technologies · with particular emphasis on iron-doped carbon nanoparticles · hyperbranched polymer systems · nanocellulose · mesoporous silica · and bio-based polymer composites.

COURSES HANDLED

Inorganic Chemistry · Organic Chemistry · Physical Chemistry · Analytical Chemistry · Spectroscopy · Nanoscience and Nanotechnology · Statistical Thermodynamics · Molecular Thermodynamics · Group Theory · Chemistry Practical/Laboratory Courses

LABORATORIES	UV–Visible Spectrophotometer · FTIR Spectrophotometer · Fluorescence Spectrophotometer	
QUALIFICATIONS	Ph.D — Chemistry 2024 St. Thomas College Palai, Mahatma Gandhi University, Kottayam Thesis: Studies on The Photochemical and Biomedical Applications of Iron Oxide-Doped Carbon Nanoparticles Stabilised in Dendritic and Macromolecular Aggregates	
	NET — Chemical Sciences 2016 Joint CSIR-UGC NET	
	MSc — Chemistry 2015 St. George's College, Aruvithura, Mahatma Gandhi University, Kottayam Third Rank, 90.25%	
	BSc — Chemistry 2013 St. George's College, Aruvithura, Mahatma Gandhi University, Kottayam First Rank, 95%	
EXPERIENCE	Assistant Professor Jan 2026 – Present St. George's College, Aruvithura · Teaching	
	Assistant Professor on contract Oct 2023 – Sept 2025 St. George's College, Aruvithura · Teaching	
	Research Scholar Jan 2020 – Sep-2023 St. Thomas College, Palai · Research	
	Assistant Professor on Contract Jul 2016 – Sept 2019 St. George's College, Aruvithura · Teaching	
RESPONSIBILITIES	Department YIP Coordinator 2025 – Present YIP	
	Department IQAC/NAAC Coordinator 2025 – Present IQAC	
	Bhoomitrasena club faculty coordinator 2025 – Present Bhoomitrasena	
RESEARCH GUIDANCE	Ashlin Shaice — “Green synthesis of PEG-coated zinc oxide nanoparticles using banana peel extract and comparison with bare zinc oxide nanoparticles” Completed, 2026 M.Sc. / PG · St. George's College Aruvithura · Supervisor	
	Aparna Sabu — “Synthesis and characterisation of PEG-coated iron oxide nanoparticles and comparison with bare iron oxide nanoparticles ” Completed, 2026 M.Sc. / PG · St. George's College Aruvithura · Supervisor	

JOURNAL PAPERS

- [1] Linson, N.; Jacob, J.; Kuriakose, S, "Iron Oxide-Doped Carbon Nanoparticles Stabilised with Functionally Modified Hyperbranched Polyglycerol for Cd²⁺ Sensing and Photodynamic Antibacterial Therapeutic Applications.," *Journal of Fluorescence*, Springer Nature, vol. 35, no. 6, pp. 3923-3943, 2025. ISSN 1053-0509. doi: <https://doi.org/10.1007/s10895-024-03769-8>. SCOPUS IF 3.4
- [2] Jacob, J., Linson, N., Mavelil-Sam, R. et al, "Poly(lactic acid)/nanocellulose biocomposites for sustainable food packaging.," *Cellulose*, Springer Nature, vol. 31, pp. 5997-6042, 2024. ISSN 0969-0239. doi: <https://doi.org/10.1007/s10570-024-05975-w>. SCOPUS IF 4.6
- [3] Jacob, J.; Linson, N.; Kuriakose, S.; Thomas, S.; Kabdrakhmanova, S, "Poly(Lactic Acid)-Based Films with Functionalized Mesoporous Silica from Rice Husk for Sustainable Food Packaging.," *ACS Sustainable Chemistry & Engineering*, American Chemical Society Publications, vol. 12, no. 9, pp. 3702-3714, 2024. ISSN 2168-0485. doi: <https://doi.org/10.1021/acssuschemeng.3c07380>. WEB OF SCIENCE IF 7.6
- [4] Linson, N.; Jacob, J.; Kuriakose, S, "Synthesis and Characterization of Iron-Doped Carbon Nanoparticles Encapsulated within Functionally Modified Hyperbranched Polyglycerol and Study of Their Chromium (VI) Ion Sensing and Antimicrobial Applications.," *Carbon Letters*, Springer Nature, vol. 33, no. 6, pp. 1847-1862, 2023. ISSN 1976-4251. doi: <https://doi.org/10.1007/s42823-023-00539-7>. SCOPUS IF 6.2
- [5] Linson, N.; Jacob, J.; Kuriakose, S, "Bovine serum albumin (BSA) stabilised wood soot based carbon nanoparticles as potentially viable anti-bacterial agents for biomedical applications.," *Brazilian Journal of Chemical Engineering*, Springer Nature, vol. 41, pp. 359-369, 2023. ISSN 0104-6632. doi: <https://doi.org/10.1007/s43153-023-00334-x>. SCOPUS IF 1.7

BOOKS & CHAPTERS

- [1] Jacob, J.; Linson, N.; Binoj, J. S.; Mansingh, B. B.; Kuriakose, S.; Thomas, S, "Polymers and Fillers Used in the Packaging Industry.," in *Nanostructured Materials for Food Packaging Applications*, Jissy Jacob, Ilaria Cacciotti and Sabu Thomas (Eds.), 1 ed., Elsevier, 2024, pp. 31-48. ISBN 978-0-323-99525-2.
- [2]  Mansingh, B. BBinoj, J. S.; Jacob, J.; Thomas, S.; Linson, N.; Kuriakose, S, "Polymer/hybrid nanofiller composites for food packaging.," in *Nanostructured Materials for Food Packaging Applications*, Jissy Jacob, Ilaria Cacciotti and Sabu Thomas (Eds.), 1 ed., Elsevier, 2024, pp. 345-365. ISBN 978-0-323-99525-2.

CITATION METRICS

109	4	2	9
CITATIONS	H-INDEX	I10-INDEX	PUBLICATIONS

Source: Google Scholar, as on August 2026

PROJECTS & FUNDING

Let the 1000 Flowers Bloom-Idea Fest 2022

Industry collaboration · Kerala Startup Mission and IEDC · Principal Investigator · Rs. 1,50,000

TRAINING & FDPS	Faculty Induction Program FDP · Malaviya Mission Teacher Training Centre, Kannur University · Kannur · Online June 18 2026–July 17 2026, 24 days
	NEP 2020 Orientation and Sensitization Program Orientation programme · UGC MMTC, University of Kerala · Thiruvananthapuram · Online September 20 2025–September 30 2025, 8 Days
	DST-STUTI training program on ‘Chromatography, Spectroscopy, & Microscopy Industrial training · DST-SAIF, Mahatma Gandhi University, Kerala, India and St. Dominic’s College, Kanjirapally in association with JSS Academy of Higher Education & Research, Mysuru · MG University Kottayam · Offline November 28, 2022–December 4, 2022, 7 Days
	Hands on Training on Statistical Data Analysis, Wasp and Other Popular Softwares for Researchers and Students Industrial training · Tropical institute of ecological sciences, Manarcaud · Manarcaud · Online October 16, 2021–October 28, 2021., 2 Weeks
TALKS & EVENTS	Noesis-2 All Kerala Paper Presentation Competition Coordinator · St. Georges College Aruvithura · Aruvithura December 2025
CERTIFICATIONS	Introduction to molecular thermodynamics’ NPTEL · 8 Weeks 2022
	Designing learner centric moocs 80% Elite+ Silver 2022
	Introduction to Molecular Spectroscopy Coursera/ University of Manchester 2020
MEMBERSHIPS	Magnetic Resonance Society Kerala 2020
LANGUAGES	Malayalam · English
PROFICIENT IN THE USE OF SOFTWARES LIKE ORIGIN, FIREFLY, GAMESS, TOPSPIN, IMAGE J, X’PERT HIGHSCORE, MATCH, CHEMSKETCH, CHEMDRAW ETC	Dr. Nihita Linson is proficient in the use of chemistry-related laboratory instruments and software tools for research, data analysis and scientific studies. She has participated in hands-on training in chromatography, spectroscopy, microscopy and statistical data analysis, and has experience working with researchers and students in interdisciplinary academic and research activities. She has also actively contributed to innovation, outreach and professional development initiatives, including NPTEL programmes, Young Innovators Programme activities and collaborative research networks. Her interests extend to continuous learning, scientific communication, student mentoring and exploring innovative applications of chemistry.