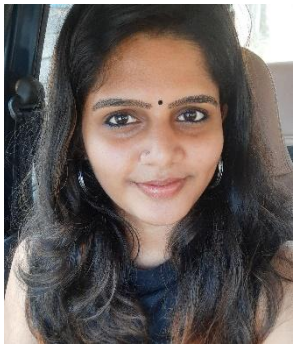
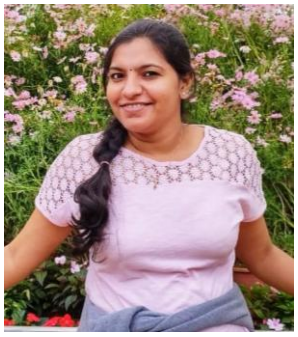
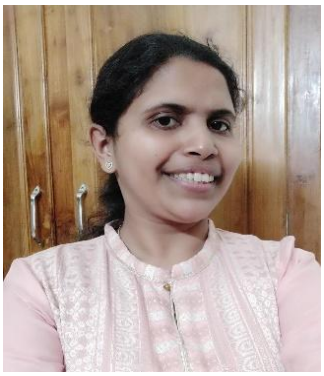
Research Group

	**Anjali G** Research Fellow (UGC-SRF) **Education:** • M.Sc. Physics, Kerala University **Research Areas:** Transition metal dichalcogenides, Metal oxide nanoparticles, Spintronics		**Arsha Ashokan** Junior Research Fellow (RUSA 2.0 Project) **Education:** • M. Tech Polymer Technology, CUSAT, Kerala • MSc Polymer Science, CIPET, Kerala **Research Areas:** SERS Sensors, Polymer Synthesis, Biomaterials
	**Bhadrapriya B C** Research Scholar **Education:** • M. Phil. Physics, School of Pure and Applied Physics, MGU • M. Sc. Physics, School of Pure and Applied Physics **Research Areas:** Multiferroics, Polymer Nanocomposites, Magnetoelectric composites, Energy harvestors		**Bosely Anne Bose** Research Scholar **Education:** • M. Phil. Physics, School of Pure and Applied Physics, MGU • M. Sc Physics, Mahatma Gandhi University **Research Areas:** Photocatalysis, Biomass-derived carbon, Metal-metal oxide hybrid structures
	**Deepa S Dev** Research Fellow-UGC JRF (National Fellowship) **Education:** • UGC NET (Electronic Science)-Dec 2018, June 2021, June 2022 • M.Tech. in Embedded Systems, Kerala University **Research Area:** Artificial Intelligence, Machine Learning, Deep Learning, Data Science, Materials Science		**Deepika Vishwas Kale** Junior Research Fellow (RUSA 2.0 Project) **Education:** • M.Sc. Microbiology, University of Mumbai **Research Areas:** Microbial Molecular Biology, Antimicrobials, Antibiotic Resistance, Polyherbal Formulations, Burn Wound Healing, Medical Microbiology
	**Fadeela C U** Research Fellow **Education:** • M.Sc-B.Ed Polymer Chemistry • M.Tech in Nanoscience and Technology, University of Calicut **Research Areas:** Graphene hybrids, Polymer nanocomposites, Optoelectronic properties of nanomaterials, Chemical and biosensors		**Fency Sunny** Research Fellow -GATE 2018 **Education:** • M. Sc Physics, MGU **Research Areas:** Halide Perovskites, Nanocomposites, Optoelectronic properties of perovskites, Photodetectors, Solar Cells

<table>
<tr>
<td>  </td>
<td>Jyothish Kumar J S
Research fellow

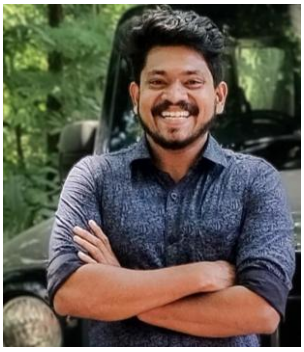
Education:
• M. Tech Nano Technology, NIT, Kozhikode, Kerala
• B.Tech Mechanical Engineering, SNIT, Adoor, Kerala

Research Areas:
Nanotechnology, Nanomedicine</td>
<td>  </td>
<td>Merin Mary Sebastian
Senior Research Fellow

Education:
• M. Sc Physics, Kuriakose Elias College, Mannanam, MG University (2017)
• M. Phil Physics, School of Pure and Applied Physics (2019), MGU

Research Areas:
Transition metal dichalcogenides, Spinel metal oxides, Water splitting, Energy Materials and Sensing</td>
</tr>
<tr>
<td>  </td>
<td>Mridula Sreedharan
DST-BRICS Fellow

Education:
• M. Tech Nanomedical Science, Amrita Vishwavidyapeetham
• GATE 2021

Research Area:
Tissue Engineering, Molecular Biology, Nanomedicine, Materials Science</td>
<td>  </td>
<td>Mohamed Nawas Vengoli
Junior Research Fellow (RUSA 2.0 Project)

Education:
• M.Sc Physics, School of Pure and Applied Physics, Mahatma Gandhi University

Research Areas:
Ferroelectric, Ferromagnetic, Multiferroic materials, 2D material hybrids, Sensing and Energy applications</td>
</tr>
<tr>
<td>  </td>
<td>Muhammed Swalihu P M
Research Fellow (UGC-SRF)

Education:
• MSc. Physics, Mahatma Gandhi University (2019)

Research Areas:
Multiferroics, Spintronics, Magnetic Solitons, Thin Films, Topological Insulators, Spin Lasers, Spin-Orbitronics.</td>
<td> 
</td>
<td>Nideesh P K
Research Scholar (DST-INSPIRE)

Education
• M. Sc Physics, Govt. College Kottayam (2018), Kerala

Research Areas:
Optics, Random lasing, Nanophotonics, Complex systems</td>
</tr>
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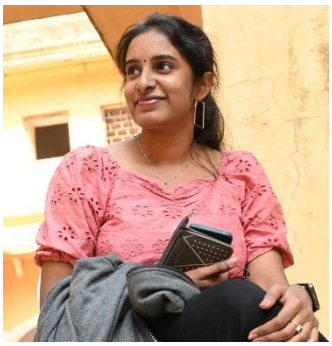
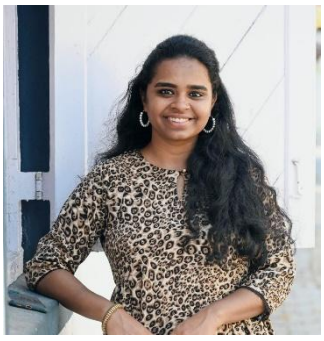
<td>  </td>
<td>Seetha Lakshmy
Research Fellow, SERB-CRG Project

Education:
• M. Sc Physics, Mahatma Gandhi University (2018)
• M. Phil Physics, School of Pure and Applied Physics (2020), MGU

Research Areas:
First-principles Density Functional Theory, Gas or Biomolecule sensing, Drug delivery applications

Google Scholar link:
https://scholar.google.com/citations?user=gAeTBTIAAAAJ&hl=en</td>
<td>  </td>
<td>Shilpa Santhosh
Research Fellow

Education:
• M. Sc Physics, School of Pure and Applied Physics (2018), MGU
• M. Phil Physics, School of Pure and Applied Physics (2020), MGU

Research Areas:
Spinel Structures, Nanocomposites, Electrocatalysis, Sensing and Energy Materials

Google Scholar link:
https://scholar.google.com/citations?user=XDsbRVgAAAAJ&hl=en</td>
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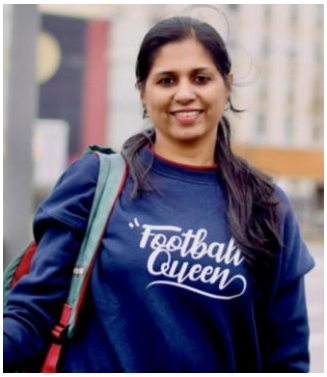
Post Doctoral Fellows

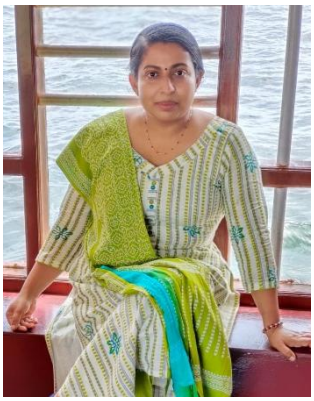


Dr. Chitra Lekha C S
Postdoctoral Fellow (CEFIPRA Project 6408-1)

Education
- Ph. D Physics, Central University of Kerala (2018)
- M.Phil Physics, Central University of Kerala (2013)
- M. Sc Physics, University of Kerala

Research areas
Multiferroics and magnetoelectric heterostructures, Spintronics, Thin film multilayers, Magnetic nanoparticles, Ferroelectric and piezoelectric ceramics, Piezopolymers, Piezoelectric and Triboelectric nanogenerators.

Google Scholar Link: https://scholar.google.co.in/citations?user=8V3NUuAAAAAJ&hl=en

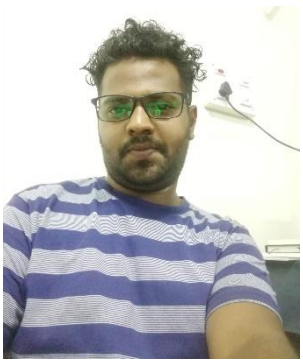


Dr. Parvathi Nancy
Research Associate (RUSA 2.0 Project)

Education
- Post Doctoral Fellow: Mahatma Gandhi University (2022)
- Ph. D Physics: Mahatma Gandhi University (2021)
- M. Phil Physics: Mahatma Gandhi University (2015)
- M. Sc Physics: University of Kerala (2011)

Research areas
Light Matter Interactions, Laser Plasma Spectroscopy, SERS, Nonlinear Optics, E lectrochemistry, Nanohybrid Materials, High Energy Materials

Google Scholar Link: https://scholar.google.com/citations?user=0dMB0dAAAAAJ&hl=en

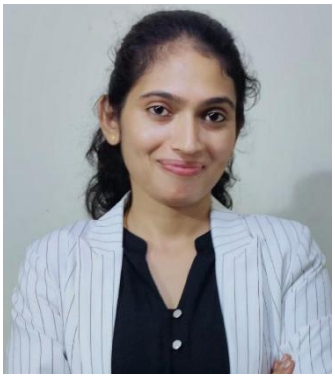


Dr. Mallikarjun Anandalli
Postdoctoral Fellow

Education
- Ph. D Physics, Karnatak University Dharwad (2023), Karnataka
- M. Sc Physics, Vijayanagara Sri Krishnadevaraya University, Ballari (2015), Karnataka

Research Areas
Experimental Condensed Matter Physics and Materials Science: Nonlinear Optics, Microstructural properties of Polymer nanocomposites, Synthesis of Nanomaterials.

Google Scholar Link: https://scholar.google.co.in/citations?user=WQ2NXdEAAAAJ&hl=en



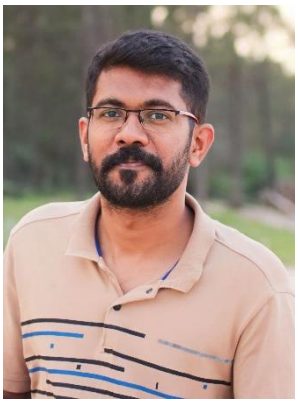
Dr. Blessy M Mani
Research Associate (RUSA 2.0 project)

Education:
- Ph. D Investigative Medicine (Allergen proteomics), Escuela Superior de Medicina, Mexico
- M. Sc Nano Biotechnology, Manonmanium Sundaranar University, Tamil Nadu, India

Post-doctoral Experience:
Indian Institute of Science (IISc) Bangalore, India
Inter University Centre for Biomedical Research, Mahatma Gandhi University, Kerala, India

Research Areas:
Proteomics, Exosomes, Allergen Proteins, Nano Biotechnology

Google Scholar Link: https://scholar.google.com/citations?user=VhXedW8AAAAJ&hl=en

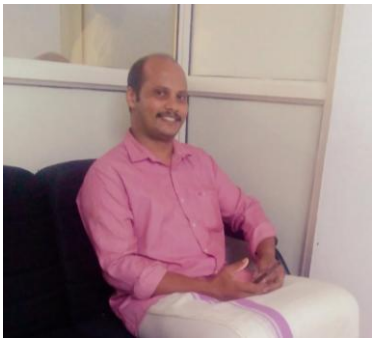


Dr. Kevin V. Alex
Research Associate (RUSA 2.0 project)

Education:
- Ph. D Physics, Central University of Tamil Nadu (2023)
- M. Sc Physics, Mahatma Gandhi University (2016)

Research Areas:
Thin films, Heterostructures, Photocatalysis, Resistive switching, Plasmonic sensing

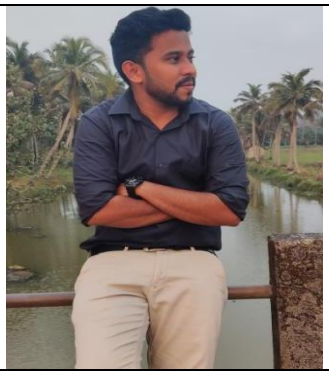
Google Scholar Link: https://scholar.google.co.in/citations?user=vbllehgAAAAJ&hl=en



Anu A.S
Analytical Engineer

Education:
M. Tech Nanoscience and Nanotechnology, Mahatma Gandhi University

Experience:
High-resolution transmission electron microscopy (HRTEM)



Jeffy Manuel
Technical Assistant

Education:
M. Sc Biomedical Instrumentation, Mahatma Gandhi University

Experience:
High-resolution transmission electron microscopy (HRTEM), X-ray diffraction analysis

Previous group members-Ph. D details

1. **Dr. Parvathy N (2021**)
   Laser Plasma Induced Green Synthesis of Nano Hybrids and Nanocomposites for Multifunctional Applications
2. **Dr. Shabina Kappadan (2020)**
   Metal oxide based hybrid nanostructures for water purification
3. **Dr. Sandhya Gopalakrishnan (2019)**
   Development and characterization of engineered metal and metal oxide nanoparticle/ cluster polymer composite for prosthodontic application
4. **Dr. Rajakumari R (2019)**
   Dietary Supplements and Nutraceutical formulations

5. **Dr. Anshida Mayeen (2018)**
   Electroactive polymer ceramic nanocomposites for multifunctional applications
6. **Dr. Indu Raj (2018)**
   Synthesis and characterizations of metal and metal oxide nano particle cluster polymer composites for their uses in craniofacial prosthesis and prosthodontic and dental applications
7. **Dr. Arunima R (2018)**
   Recyled polyurethane toughened epoxy resin
8. **Dr. Ann Rose Abraham (2018)**
   Development of Hybrid Multiferroic Materials for Tailored Applications
9. **Dr. Lakshmipriya S (2018)**
   Polyhedral Oligmeric Silsesquioxane (POSS) Filled Natural Rubber Composites
10. ***Dr. Srinivasarao Yaragalla (2016)***
    Graphene and Carbon Nano tube Reinforced Elastomer Nanocomposites
11. **Dr. El Hadji Mamour Sakho (*International student*) (2016)**
    Graphene Based Hybrid Materials for Tailored Applications
12. ***Dr. Rehana P Ummer (2016)***
    Investigation on Nano sized Multiferroic $BiFeO_3$-$NaNbO_3$ ceramics and its polymer composites
13. **Dr. Robin Augustine (2015)**
    Design and development of polymer nanocomposites for biomedical applications
14. **Dr. Raneesh B (2013)**
    Synthesis and characterisation of selected nanomultiferroic systems
15. **Dr. Shiji Krishnan (2013)**
    Multifunctional studies on pure and Fe modified Yttrium chromite nanosystems
16. **Dr. Jeevan Job Thomas (2012)**
    Investigations on selected nanomagnetic systems
17. **Dr. Nuja S John (2012)**
    Preparation and characterization of selected luminescent nanoparticles
18. **Dr. Seema R (2011)**
    Synthesis and spectroscopic studies of pure and rare earth doped Sr_2CeO_4 phosphors
19. **Dr. Jaimon Yohannan (2001)**
    Investigations on structural and electrical properties of selected ferroelectric ceramics

Titles of Ph. D theses co-supervised

1. Nanoparticles for Improved Plant growth and secondary metabolite production- **Dr. Rakhimol K. R** (**2020**)
2. Investigations on Ag/TiO_3/GQD Nanoparticles based PMMA-polymer nanocomposites for multifunctional Applications- **Dr. Bhavitha K B (2020)**
3. Role of Multiwall Carbon Nanotubes on the Morphology, Rheology and Properties of Natural Rubber/Polypropylene Blends- **Dr. Sharika T Nair (2019)**
4. Studies on Electrospun Chitosan and its Composites- **Dr. Merin Sara Thomas** (**2019**)

5. Microbiological Application of Nanostructured Materials- Dr. **Snigdha S (2019)**
6. Development of carbon nanotube based polymer blend nanocomposites for electromagnetic interference shielding- **Dr. P Mohammed Arif (2018)**
7. Study on Polyvinyl Chloride/Graphene Nanocomposites- **Dr. Akhina H (2018)**
8. Noble metal nanostructures and hetero atom doped graphene hybrids for multifunctional applications- **Dr. Anju K. Nair (2017)**
9. Ionic liquid modified carbon nanotube based styrene butadiene rubber nanocomposites- **Dr. Jiji Abraham (2017)**

Previous Post-Doctoral Fellows

1. Dr. Raji V (Dr. K S Kothari Fellow)
2. Dr. Sathiyanthan P (CEFIPRA)