

Dr SUJA HARIDAS

Professor

Department of Chemistry

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ACADEMIC RECORD

- **PhD** (1999-2002) Department of Applied Chemistry, CUSAT, Kerala, India.
- **M Sc Applied Chemistry** (1996-1998)
First class with Distinction, First rank (81.2%) Department of Applied Chemistry, CUSAT, Kerala, India
- **B Sc Chemistry** (1993- 1996), First class with Distinction, First rank (97.3%)
University of Calicut

RESEARCH EXPERIENCE

- Ph.D from Department of Applied Chemistry, Cochin University of Science and Technology under the supervision of Dr. S.Sugunan
Title: Studies on Catalysis by Transition Metal Promoted Sulphated Zirconia
- CSIR Research Associate at Department of Applied Chemistry, Cochin University of Science and Technology (October 2003 to Aug 2005)

RESEARCH EXPERIENCE

TEACHING EXPERIENCE

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|---|--------------------------|
| ➤ Lecturer (Contract), Department of Applied Chemistry, CUSAT | 13-09-2002 to 30-09-2003 |
| | 17-08-2005 to 14-10-2008 |
| ➤ Assistant Professor, N.S.S College, Nemmara | 15-10-2008 to 08-08-2017 |
| ➤ Assistant Professor, Department of Applied Chemistry, CUSAT | 09-08-2017 to 16-10-2021 |
| ➤ Associate Professor, Department of Applied Chemistry | 17-10-2020 to 10-07-2024 |
| ➤ Professor, Department of Applied Chemistry, CUSAT | 11-07-2024 |

PRESENT CONCERNS

- ☞ Nanomaterials for energy and environmental applications
- ☞ Heterogeneous catalysis, Photocatalysis
- ☞ Photocatalytic Membranes

LIST OF PUBLICATIONS (last 5 years)

- ✂ Gopika Jagannivasan, **Suja Haridas**, Jayasree E.G, Swathy Mukundan, Jorge Beltramini, Heteropolyacid catalyzed direct transformation of biomass-derivable platform chemicals into alkyl levulinates, *Renewable Energy*, 2025, <https://doi.org/10.1016/j.renene.2025.123672>
- ✂ Gopika Jagannivasan, **Suja Haridas**, Banu Marimuthu, Swathy Mukundan, Heteropolyacid-Assisted Efficient One-Pot Synthesis of EthylLevulinate from Biorenewable Feedstocks, **Energy and Fuels**, 2024, <https://doi.org/10.1021/acs.energyfuels.4c05189>
- ✂ Rosmy Joy, Sumit Chahal, Vasudevanpillai Biju, Prashant Kumar, **Suja Haridas**, Engineered 2D Boron nitride Flexible electrodes for Supercapacitors, 2024, **ACS Applied Energy Materials**, <https://doi.org/10.1021/acsaem.4c01540>.
- ✂ Gopika Jagannivasan, Jayasree G Elambalassery, **Suja Haridas**, Calix[4]resorcinarenes as Stable, Metal-Free Unexplored and Unfathomed Material for Iodine Capture: Experimental and Theoretical Insights, 2024, **ACS Chemical Health and Safety**, <https://doi.org/10.1021/acs.chas.4c00037>.
- ✂ Rosmy Joy, **Suja Haridas**, Strontium titanate aided water splitting: An overview of current scenario, **International Journal of Hydrogen Energy**, <https://doi.org/10.1016/j.ijhydene.2020.10.148>
- ✂ Merin Joseph, Mohit Kumar, **Suja Haridas**, Challapalli Subrahmanyam, Sebastian Nybin Remello, A Review on Advancements of Graphitic Carbon Nitride Based Photoelectrodes for Photoelectrochemical Water Splitting, **Energy Advances**, 2023, DOI: [10.1039/d3ya00506b](https://doi.org/10.1039/d3ya00506b)
- ✂ Merin Joseph, Fredin Paulson, Nasrin C, Aparna S, Sebastian Nybin Remello, **Suja Haridas**, Usha k Aravind, Layer-by-layer assembled graphitic carbon nitride membranes for water treatment, **Chemosphere**, <https://doi.org/10.1016/j.chemosphere.2024.141544>
- ✂ Rosmy Joy, Bhagatram Meena, Mohit Kumar, Merin Joseph, Sneha Joseph, Challapalli Subrahmanyam, **Suja Haridas**, Exploring the role of ZnS as passivation layer on SrTiO₃/Bi₂S₃ heterojunction photoanode for improved solar water splitting, **Catalysis Today**, <https://doi.org/10.1016/j.cattod.2024.114669>
- ✂ Merin Joseph, Bhagatram Meena, Rosmy Joy, Sneha Joseph, Rajesh Kumar Sethi, Sebastian Nybin Remello, **Suja Haridas**, Challapalli Subrahmanyam, Rational design of a g-C₃N₄/Bi₂S₃/ZnS ternary heterojunction photoanode for improved solar water splitting, **Sustainable Energy and Fuels**, DOI: <https://doi.org/10.1039/d4se00147h>
- ✂ Rosmy Joy, Merin K Wilson, Aldrin Antony, Bharathi Konkena, Sibin C Padmanabhan, Michael A Morris, **Suja Haridas**, Polyaniline wrapped graphene quantum dot decorated strontium titanate for robust high-performance flexible supercapacitors, **New Journal of Chemistry**, <https://doi.org/10.1039/D3NJ04413K>
- ✂ Gopika Jagannivasan, Arun R, Mohit Kumar, Challapalli Subrahmanyam, Sebastian Nybin Remello, **Suja Haridas**, Keggin type heteropolyacid-mediated novel green protocol for the synthesis of porphyrins, **New Journal of Chemistry**, DOI: [10.1039/d3nj01048a](https://doi.org/10.1039/d3nj01048a)
- ✂ Athira M.P, Arun R, **Suja Haridas**, Selective and sensitive non-enzymatic detection of glucose by Cu(ii)–Ni(ii)/SBA-15, **New Journal of Chemistry**, DOI: [10.1039/d4nj00039k](https://doi.org/10.1039/d4nj00039k)

- ✂ Merin Joseph, **Suja Haridas**, Sebastian Nybin Remello, Heterojunction Engineering of g-C₃N₄ with CuO for Enhanced Photocatalytic and Photoelectrochemical Performance, **Energy Technology**, DOI: [10.1002/ente.202301340](https://doi.org/10.1002/ente.202301340)
- ✂ Gopika Jagannivasan, Gopika N Nair, **Suja Haridas**, Visible light-assisted H₄[PW₁₁VO₄₀] catalysed synthesis of bis(indolyl)methanes, **Molecular Catalysis**, <https://doi.org/10.1016/j.mcat.2023.113285>
- ✂ Merin Joseph, Mohammed Sadik N K, Sebastian Nybin Remello, **Suja Haridas**, Susmita, De, Through Space Sigma Donation π Acceptor Assisted Photocatalytic Degradation of Ciprofloxacin on TCP supported g-C₃N₄, **Chemistry Select**, <https://doi.org/10.1002/slct.202203348>
- ✂ M.P Athira, R Arun, **Suja Haridas**, CuO impregnated SBA-15 as an efficient catalyst for B-V oxidation of cyclohexanone to caprolactone, **J Porous Materials**, <https://doi.org/10.1007/s10934-023-01514-3>
- ✂ Arun R, Gopika Jagannivasan, M.Salva, Athira M P, **Suja Haridas**, Phosphotungstic acid modified sulphonic acid functionalised SBA-15: exploring the synergistic effect for thermal and light assisted synthesis of bis(indolyl)methanes, **J Porous Materials**, <https://doi.org/10.1007/s10934-024-01674-w>
- ✂ Arun R, Merin Joseph, M. P. Athira, M. Salva, Sebastian Nybin Remello, Suja Haridas, 1,2-Phosphotungstic acid and sulphonic acid functionalised SBA-15 for the synthesis of 2,4,5 trisubstituted and 1,2,4,5 tetrasubstituted imidazole derivatives, **J Porous Materials**, <https://doi.org/10.1007/s10934-025-01750-9>
- ✂ Rosmy Joy, **Suja Haridas**, Polyaniline enfolded titanate perovskite: a promising material for supercapacitor applications. **Polymer Bulletin**, <https://doi.org/10.1007/s00289-023-04810-9>.
- ✂ R Arun, M P Athira, Sebastian Nybin Remello, **Suja Haridas**, SBA-15-SO₃H catalysed room temperature synthesis of 2-aryl benzimidazoles and benzothiazoles, **Reaction Kinetics, Mechanism and Catalysis**, 2023 <https://doi.org/10.1007/s11144-023-02464-2>