

# Abhijna Krishna R

✉ abhijnakrishna@gmail.com

🆔 0000-0003-4052-9526

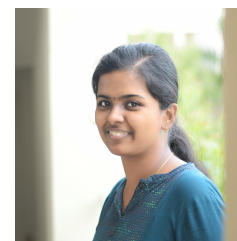
🌐 <https://scholar.google.com/citations?hl=en&user=WJMxVIAAAAAJ>

📄 <https://www.researchgate.net/profile/Abhijna-Krishna>

🌐 <http://www.linkedin.com/in/abhijnakrishna/>

🌐 [https://abhijnakrishna.github.io/Abhijna\\_krishna/](https://abhijnakrishna.github.io/Abhijna_krishna/)

🏠 Chithralayam, Aruvanoor Parambu, Kollengode, Palakkad - 678506



## Research Experience

- 2020 - Present     📌 **Prime Minister's Research Fellow**, National Institute of Technology Tiruchirappalli.  
Department of Chemistry, *Organic and Polymer Synthesis Lab*.  
Hosted By : Dr. S. Velmathi ✉ [velmathis@nitt.edu](mailto:velmathis@nitt.edu)
- 2018     📌 **Summer Research Intern**, Indian Institute of Technology - Madras (IITM).  
*Department of Chemistry, IIT Madras*.  
Hosted By : Dr. P. Anbarasan ✉ [anbarasansp@iitm.ac.in](mailto:anbarasansp@iitm.ac.in)

## Education

- 2017 - 2019     📌 **M.Sc. Chemistry, Central University of Tamil Nadu**  
Thesis title: *Synthesis, characterisation, and DNA binding studies of half-sandwich ruthenium (II) arene complexes containing phenanthroimidazoles*.  
CGPA : **8.9/10** | Hosted By : Dr. S. Nagarajan ✉ [snagarajan@cutn.ac.in](mailto:snagarajan@cutn.ac.in)
- 2014 - 2017     📌 **B.Sc. Chemistry, University of Calicut**  
Thesis title: *Effect of calcium carbide in the Vitamin C content of fruits*.  
CGPA : **8.4/10** | Hosted By : K. V. Vinod ✉ [kvvinod.iit@gmail.com](mailto:kvvinod.iit@gmail.com)



## Awards and Achievements

- 2021     📌 **Prime Minister's Research Fellowship**  
Enhanced PhD Research Fellowship Grant from MHRD, Government of India to pursue HDR
- 2020     📌 **GATE - MHRD Fellowship**  
PhD Research fellowship Grant from MHRD, Government of India to pursue HDR.
- 📌 **Junior Research Fellowship (JRF) - Chemical Sciences | AIR - 95**  
PhD Research Fellowship Grant from UGC, Government of India to pursue HDR.
- 📌 **India International Science Festival Essay Competition**  
Achieved 1st Prize in Essay Competition Conducted by IISF in Research scientists category.

## Teaching Experience

- Dec 2021 - April 2021     📌 **Graduate Teaching Assistant, Department of Chemistry**  
*National Institute of Technology, Tiruchirappalli*  
Course : CH612 - Chemistry Laboratory
- April 2021 - Nov 2021     📌 **Graduate Teaching Assistant, Department of Chemistry**  
*National Institute of Technology, Tiruchirappalli*  
Course : CH610 - Inorganic and Organic quantitative Analysis Laboratory
- Nov 2020 - Mar 2021     📌 **Graduate Teaching Assistant, Department of Chemistry**  
*National Institute of Technology, Tiruchirappalli*  
Course : CHIR12 - Physical Chemistry Laboratory

## Professional Membership

- 2022  **American Chemical Society (ACS) - Student Member**  
Membership ID : 33039177.
-  **Chemical Research Society of India (CRSI) - Life Member**  
Membership ID : 33039177.

## Research Publications

### Journal Articles

- Abhijna Krishna. R.**, & Velmathi, S. (2022). Pyrene – N–phenylparaphenylene diamine-based imine conjugate as a photoelectron transfer chemodosimeter for the detection of trace amounts of water in organic solvents: Real-time application in honey samples. *New Journal of Chemistry* - *Under Review*.
- Abhijna Krishna. R.**, & Velmathi, S. (2022). A review on fluorimetric and colorimetric detection of metal ions by chemodosimetric approach 2013–2021. *Coordination Chemistry Reviews*, 459, 214401.  
[doi:10.1016/j.ccr.2021.214401](https://doi.org/10.1016/j.ccr.2021.214401)
- Abhijna Krishna. R.**, Dheepika, R., Muralisankar, M., & Nagarajan, S. (2021). Microwave-assisted synthesis and dna-binding studies of half-sandwich ruthenium (ii) arene complexes containing phenanthroimidazole-triarylamine hybrids. *Journal of Coordination Chemistry*, 74(4-6), 838–849.  
[doi:10.1080/00958972.2021.1885650](https://doi.org/10.1080/00958972.2021.1885650)
- Dheepika, R., **Abhijna Krishna. R.**, Imran, P. M., & Nagarajan, S. (2020). High performance p-channel and ambipolar ofets based on imidazo [4, 5-f]-1, 10-phenanthroline-triarylaminines. *RSC Advances*, 10(22), 13043–13049. [doi:10.1039/D0RA00210K](https://doi.org/10.1039/D0RA00210K)
- Parvathy, P., Dheepika, R., **Abhijna Krishna. R.**, Imran, P., & Nagarajan, S. (2020). Fluorescence quenching of triarylamine functionalized phenanthroline-based probe for detection of picric acid. *Journal of Photochemistry and Photobiology A: Chemistry*, 401, 112780.  
[doi:10.1016/j.jphotochem.2020.112780](https://doi.org/10.1016/j.jphotochem.2020.112780)

## References

- Prof. S. Velmathi  **Fellow of Royal Society of Chemistry**  
**Professor & Head**, Department of Chemistry,  
National Institute of Technology Tiruchirappalli, Tamil Nadu - India.  
[✉ velmathis@nitt.edu](mailto:velmathis@nitt.edu)
- Prof. S. Nagarajan  **Fellow of Royal Society of Chemistry**  
**Professor**, Department of Chemistry,  
**Dean**, School of Basic and Applied Sciences,  
Central University of Tamil Nadu, Thiruvarur, Tamil Nadu - India.  
[✉ snagarajan@cutn.ac.in](mailto:snagarajan@cutn.ac.in)
- Prof. P. Anbarasan  **Professor**, Department of Chemistry,  
Indian Institute of Technology Madras.  
[✉ anbarasansp@iitm.ac.in](mailto:anbarasansp@iitm.ac.in)
- Dr. V. Rajendiran  **Assistant Professor**, Department of Chemistry,  
Central University of Tamil Nadu, Thiruvarur, Tamil Nadu - India.  
[✉ rajendiran@cutn.ac.in](mailto:rajendiran@cutn.ac.in)