

Dr. Guruprasad M. S.

A dynamic and visionary Ph.D. candidate in the area of synthesis and applications of prospective organic compounds. Successfully worked with multiple interdisciplinary groups. Strong education/research professional with Ph.D. from CSIR-NIIST, Trivandrum, India.

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📄 GURUPRASAD MS, Ph.D. |

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📄 https://scholar.google.com/citations?user=YFJS_pYAAAAJ&hl=en



PROFESSIONAL EXPERIENCE

Feb. 2023-
Till Date

Assistant Professor

Department of Chemistry, Dayananda Sagar College of Arts, Science and Commerce (DSCASC), Shavige Malleshwara Hills, Kumaraswamy Layout, Bengaluru- 560 111. Karnataka, India

<https://www.dscasc.edu.in/>

Topics Taught

- ✓ Chemical Thermodynamics
- ✓ Reaction Kinetics
- ✓ Electrochemistry
- ✓ Quantum Chemistry
- ✓ Surface Chemistry and Catalysis
- ✓ Chemical Periodicity
- ✓ Non-transition Elements Chemistry
- ✓ Coordination Chemistry
- ✓ Organometallic Chemistry
- ✓ Bioinorganic Chemistry
- ✓ Natural Product Chemistry
- ✓ Instrumental Methods of Chemical Analysis
- ✓ Analytical and Separation Techniques
- ✓ Nature of Bonding in Organic Molecules
- ✓ Stereochemistry
- ✓ Reactive Intermediates

RESEARCH EXPERIENCE

Aug. 2014-
Jan. 2022

Ph. D. Research Fellow

CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala- 695 019, India. <https://www.niist.res.in>

Area of Interest

- ✓ Near-Infrared Organic Dyes
- ✓ Ultrafast Dynamics of Photofunctional Materials
- ✓ Bulk-heterojunction based Organic Optoelectronics

Main Activities and Responsibilities during Ph. D.

- ✓ Design and synthesis of novel near-infrared (NIR) responsive squaraine based compounds for organic optoelectronic applications.
- ✓ Electrochemical, steady-state and time-resolved photophysical characterization of the synthesized materials.

✓ Photodetector characterization of the compounds to attain NIR sensitivity.

EDUCATIONAL QUALIFICATIONS

<i>Qualification awarded</i>	Ph.D. in Chemical Sciences CGPA: 8.08/10 (Distinction) Subject Specificity: Organic Synthesis, Ultrafast Spectroscopy and Organic Optoelectronics Principal Investigator: Dr. V. Karunakaran Thesis Titled: "Aminoanthracene Appended Unsymmetrical Squaraine Derivatives: Synthesis and Ultrafast Time-Resolved Photophysical Characterization for NIR Photodetectors"	<i>Aug. 2014-Jan. 2022</i>
<i>School/Institution</i>	Photosciences and Photonics Section, Chemical Sciences and Technology Division, CSIR-NIIST, Trivandrum, Kerala-695 019, India. https://www.niist.res.in	
<i>Qualification awarded</i>	M. Sc. in Industrial Chemistry CGPA: 7.45 /10 (Distinction, 2 nd University Ranker) Thesis "Simultaneous Determination of Dopamine and Ascorbic Acid at Cetyl Pyridinium Bromide (CPB) Modified Carbon Paste Electrode–A Cyclic Voltammetric Study"	<i>June 2010- June 2012</i>
<i>School/Institution</i>	Dept. of Industrial Chemistry, Kuvempu University, Shankaraghatta, Karnataka-577 451 India. http://www.kuvempu.ac.in <i>Principal subjects:</i> Analytical and Separation Techniques, Advanced Organic and Medicinal Chemistry, Advanced Spectroscopic Techniques, Chemical Process Principles, Polymer Chemistry and Technology, Organometallic and Bio-inorganic Chemistry.	
<i>Qualification awarded</i>	B.Sc. in Chemistry, Botany and Biotechnology CGPA: 9.06/10 (Distinction, 3 rd Ranker)	<i>June 2007- June 2010</i>
<i>School/Institution</i>	Sahyadri Science College, Kuvempu University, Shivamogga, Karnataka- 577 203, India. https://www.kussc.ac.in/ Principal subjects: Bachelor's level Chemistry, Botany and Biotechnology	

PUBLICATIONS

1. Neelambra, A. U.; Govind, C.; Devassia, T. T.; **Somashekharappa, G. M.**; Karunakaran, V. *Phys. Chem. Chem. Phys.* **2019**, 21, 11087-11102 (**IF = 3.67**).
 2. **Somashekharappa, G. M.**; Govind, C.; Pulikodan, V.; Paul, M.; Namboothiry, M. A. G.; Das, S.; Karunakaran, V., *J. Phys. Chem. C* **2020**, 124, 21730-21739 (**IF = 4.12**).
 3. **Somashekharappa, G. M.**; Paul, M.; Govind, C.; Mathew, Ranimol.; Karunakaran, V., *J. Phys. Chem. B* **2022**, 126, 4509–4519 (**IF = 2.99**).
 4. **Somashekharappa, G. M.**; Paul, M.; Karunakaran, V., Manuscript to be submitted to *J. Photochem. Photobiol. A* (**IF = 4.29**).
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List of Posters/Oral Talks Presented in International Conferences

1. Poster Presentation: **Somashekharappa, G. M.**; Govind,C.; Karunakaran, V., and Das, S., International Conference on Advanced Functional Materials (**ICAFM-2019**). CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala-695 019, India, December, 9-10, 2019.

2. Oral Talk: **Somashekharappa, G. M.**; Govind, C.; Pulikodan, V.; Paul, M.; Namboothiry, M. A. G.; Das, S.; Karunakaran, V., International Conference on Materials for the Millennium (**MatCon-2021**), Cochin University of Science and Technology (CUSAT), Kochi, Kerala-682 022, India, March15-19, 2021.
3. Participated: 8th Asia Symposium on Functional Dyes and Advanced Materials (**EAS8-2017**), CSIR-National Institute for Interdisciplinary Science and Technology, Trivandrum, Kerala-695 019, India, September, 20-22, 2017

AWARDS AND DISTINCTIONS

- May-2010 Honored with 3rd rank in B. Sc. Sahyadri Science College, India
- May-2012 Honored with University 2nd rank in M. Sc. Kuvempu University, India
- Jun.-2013 Qualified CSIR-Junior Research Fellowship Examination (AIR- 51st)
- Aug.-2016 Obtained CSIR-Senior Research Fellowship

PERSONAL SKILLS AND PROFICIENCIES

1. Languages Known: Kannada, English
2. Softwares:

Microsoft Office	Chemdraw	Origin	SciFinder
Glotaran	Ez Time	ExiPro	iThenticate
GAPrep	Rserve	EndNote	
3. Hands on experience in analytical instruments:
 - FTIR Spectrophotometer
 - Mel-Temp II Melting Point Apparatus
 - UV-VIS Spectrophotometer
 - Fluorescence Spectrophotometer
 - Time-Correlated Single-Photon Counting Spectrometer (TCSPC)
 - Nanosecond Laser Flash Photolysis
 - Voltammetric Analyzer
 - Zetasizer Nanoseries (Zeta Nano-ZS, Ms. Malvern Instruments)

REFERENCES

Prof. Suresh Das FNA, FASc
Former Director
CSIR-NIIST, Trivandrum & Honorary Professor
(Chemistry), IISER-Trivandrum, Maruthamala PO,
Vithura, Trivandrum. Kerala-695 551, India
Ph: +91 94477 06202
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Dr. V. Karunakaran
Principal Scientist
Photosciences and Photonics Section,
Chemical Sciences and Technology Division,
CSIR-NIIST, Trivandrum, Kerala-695 019, India
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I hereby state that the above information is true to the best of my knowledge and belief.

