

FACULTY DETAILS

Faculty Name:

DR. ASHWINI S

Associate Professor, Department of Physics

Education Details:

- **Ph.D (Physics)**

Contact Details

Email ID: ashwinis86@gmail.com

Scopus ID: <https://www.scopus.com/authid/detail.uri?authorId=57205302742>

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Orcid ID: <https://orcid.org/0000-0001-8180-207X>

Professional Experience

Teaching Experience:

- Working as Associate Professor, Department of Physics, AIT from October 2023 to till date.
- Worked as Guest faculty in Government First Grade College, Tumkur from February 2023 to August 2023
- Worked as Vice Principal in Narayana N-guide PU program, Tumkur from May 2021 to September 2022
- Worked as Head of Department in Channabasaveshwara Institute of Technology, Gubbi from February 2020 to May 2021
- Worked as Assistant Professor in Channabasaveshwara Institute of Technology, Gubbi from September 2017 to February 2020
- Worked as Assistant Professor in Shridevi Institute of Engineering and technology, Tumkur from July 2008 to September 2017
- **Research Experience: 4 Year**
- **Scopus Indexed preview:**
<https://www.scopus.com/authid/detail.uri?authorId=57205302742>

Publication Details:

SCOPUS INDEXED JOURNALS:

1. “Enhancement of luminescence intensity and spectroscopic analysis of Eu^{3+} activated and Li + charge-compensated Bi_2O_3 nanophosphors for solid-state lighting”, **S. Ashwini**, S.C. Prashantha, Ramachandra Naik, H. Nagabhushana, Journal of Rare Earths, Volume 37, Issue 4, April 2019, Pages 356-364. <https://doi.org/10.1016/j.jre.2018.07.009>
2. “Photoluminescence of a novel green emitting $\text{Bi}_2\text{O}_3:\text{Tb}^{3+}$ nanophosphors for display, thermal sensor and visualisation of latent fingerprints”, **S.Ashwini**, S.C. Prashantha, Ramachandra Naik, Yashwanth V. Naik, H.Nagabhushana, D.M. Jnaneshwara, Optik - International Journal for Light and Electron Optics, 192 (2019) 162956. <https://doi.org/10.1016/j.ijleo.2019.162956>
3. “ $\text{Bi}_2\text{O}_3:\text{Dy}^{3+}$ nanophosphors: its white light emission and photocatalytic activity”, **S. Ashwini**, S.C. Prashantha, Ramachandra Naik, H. Nagabhushana, D.M. Jnaneshwara, K.N. Narasimhamurthy, SN Applied Sciences, 1(9) (2019) 1028. <https://doi.org/10.1007/s42452-019-1047-6>
4. “Photoluminescence and photocatalytic properties of novel $\text{Bi}_2\text{O}_3:\text{Sm}^{3+}$ nanophosphor”, **S. Ashwini**, S.C. Prashantha, Ramachandra Naik, Yashwanth V. Naik, H. Nagabhushana, K.N Narasimhamurthy, Journal of Science: Advanced Materials and Devices, Volume 4, Issue 4, December 2019, Pages 531-537. <https://doi.org/10.1016/j.jsamd.2019.09.001>

5. "A benign approach for novel synthesis of Eu^{3+} doped MgNb_2O_6 : Its photoluminescence and photocatalytic studies", N. Basavaraju, S.C. Prashantha, H. Nagabhushana, M. Chandrasekhar, A. Naveen Kumar, T.R. Shashi Shekhar, **S. Ashwini**, K.S. Anantharaju, *Ceramics International*, <https://doi.org/10.1016/j.ceramint.2020.07.242>.
6. "Photoluminescence and electrochemical performances of Eu^{3+} doped $\text{La}_{10}\text{Si}_6\text{O}_{27}$ nanophosphor: Display and electrochemical sensor applications", A. Naveen Kumar, D.M. Jnaneshwara, M.R. Anil Kumar, N. Basavaraju, C.R. Ravikumar, H.C. Ananda Murthy, H. Nagabhushana, K.M. Girish, **S. Ashwini**, Ramachandra Naik, *Applied Surface Science Advances*, 1 (2020) 100026, <https://doi.org/10.1016/j.apsadv.2020.100026>.
7. " $\text{SiO}_2 @ \text{CaTiO}_3 : \text{Tb}^{3+}, \text{Li}^+$ core shell nanostructure: Enhanced photoluminescence for optoelectronic applications", Vijaya V. Shanbhaga, S.C. Prashantha, **S. Ashwini**, Y.G. Krupanidhi, D.M. Jnaneshwara, V. Revathi, Ramachandra Naik, *Gradiva Review Journal*, ISSN NO : 0363-8057, Volume 7, Issue 7, 2021, Pages 43-59.
8. Synthesis and Thermoluminescence Studies of Dy^{3+} Doped Bi_2O_3 Nanophosphors, **S. Ashwini**, K N Narasimhamurthy, *International Journal of Engineering Technology and Management Sciences (IJETMS)*, Vol-08 Issue-01 January -February 2024, DOI: 10.46647/ijetms.2020.v04i01.028 ISSN: 2581-4621

INTERNATIONAL CONFERENCES:

1. "Low temperature combustion Synthesized $\text{Bi}_2\text{O}_3: \text{Eu}^{3+}$ and its photoluminescence studies", **Ashwini. S**, S.C. Prashantha, H. Nagabhushana, presented at the "International Conference on Advances in Science and Engineering (ICASE-2017)" held in East West Institute of Technology, Bengaluru; Regent's International College, Bangkok, Thailand during 19-22, Jan 2017.
2. "Synthesis, Characterization and Photoluminescence studies of $\text{Bi}_2\text{O}_3:\text{Nd}^{3+}$ Nanophosphors", **S. Ashwini**, S.C. Prashantha, Ramachandra Naik, H. Nagabhushana, K N Narasimhamurthy, Presented at the 6th International Conference on Luminescence and Applications [ICLA- 2019] Organized by School of Studies in Physics and Astrophysics, Pt. Ravishankar Shukla University, Raipur-492010, Chhattisgarh, INDIA & Luminescence Society of India (LSI) during January 7-10, 2019.
3. "Thermoluminescence studies of $\text{Bi}_2\text{O}_3: \text{Dy}^{3+}$ Nanophosphors", **S. Ashwini**, S.C. Prashantha, K N Narasimhamurthy, D M Jnaneshwara, presented at the International conference on "Advances in Materials, Ceramics & Engineering Sciences" (AMCES-2020) organized by Dayananda Sagar College of Engineering, Bengaluru, India Jointly with ICS - Karnataka Chapter and Department of Nanotechnology, VTU on 17th and 18th January 2020.
4. "Synthesis and Thermoluminescence Studies of Sm^{3+} Doped Bi_2O_3 Nanophosphors", **S. Ashwini**, S.C. Prashantha, K.N. Narasimhamurthy, presented at the VIRTUAL INTERNATIONAL CONFERENCE on "Recent Advances in Chemical and Biological Sciences (ViRACBS - 2020)" organized by Dayananda Sagar College of Engineering, Bengaluru, on 7th -9th December 2020 and awarded Best Oral Presentation.

Roles and Responsibility

- Student Proctor
- First Year HOD
- Admission Officer

Professional body membership

- **Member of LSI**

Achievements:

1. **SECOND RANK** in **B.Sc** to Bangalore university
2. **FIRST RANK and THREE GOLD MEDALS in M.Sc.** from Bangalore University.
3. **Best Oral presentation** in the International Conference on “Recent Advances in Chemical and Biological Sciences (ViRACBS - 2020)” organized by Dayananda Sagar College of Engineering, Bengaluru, on 7 th -9 th December 2020.
4. **Best Poster Presentation in** 11th National Conference on Condensed Matter Physics And Applications, Organized by Department of Physics, Manipal Institute of Technology, Manipal Academy of Higher Education, on December 14 –15, 2023

Ph D Guidance

- **NIL**

Research Area of Interest

- **Nano Phosphors**
- **Photoluminescence studies**
- **Photocatalytic activity**