

# CURRICULUM VITAE

**Dr. PRATHAP. A**

**S/o Arjun Naik**

**Research Scholar  
Dept. of Industrial Chemistry,  
Kuvempu University, Shankaraghatta (P),  
Bhadravathi (TQ), Shimoga (D)  
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**Mobile:+91-9591069663**



## Education Qualification

Examination passed	University/Institution	Percentage Obtained
M.Sc (Industrial chemistry)	Kuvempu University, Shimoga, Karnataka.	70.09%
B.Sc	Gov. First grade collage Bapuji nagara, Shivamogga Karnataka	64.41%

## Higher Education

- **Awarded Ph. D degree in the field of Inorganic Chemistry and Nanotechnology,** from Department of Industrial Chemistry, Kuvempu University, Karnataka.

## Personal skills

- Comprehensive problem-solving abilities,
- Good verbal and written communication skills
- Ability to deal with people diplomatically
- Willingness to learn,
- Team facilitator,
- Adaptable to varying conditions,
- Enthusiastic for teamwork.

<b>Doctoral Research</b>	<p><b>Research Experience:</b></p> <ul style="list-style-type: none"> <li>➤ Three years research experience in Nanomaterials and its applications in optoelectronic with four articles published in international journals.</li> <li>➤ Department of industrial chemistry, Kuvempu university, (2021-2024)</li> <li>➤ <b>Research Advisor:</b> Prof. H.S. Bhojya Naik</li> <li>➤ <b>Topic: ‘FACILE BIO FABRICATION OF PHOTO-FUNCTIONALIZED MATERIALS FOR ENVIRONMENTAL REMEDIATIONS’.</b></li> <li>➤ Literature reviews from various Universities and Institution.</li> <li>➤ Synthesis of transition and inner-transition metal nanoparticles in their doped form.</li> <li>➤ Optimization of synthesis process and Analysis of the technical data</li> <li>➤ Interpret results and undertake studies for further development/ improvement.</li> <li>➤ Prepare technical reports.</li> </ul>
<b>AWARDS and HONORS</b>	<p><b>Award and Honors:</b></p> <ul style="list-style-type: none"> <li>➤ Best poster award in BABA-2024 International conference organized by Periyar University, Salem-633001, Tamil Nadu, India.</li> </ul>

<b>Personal Profile</b>	<table border="1"> <tr> <td>Name</td> <td>Dr. Prathap. A</td> </tr> <tr> <td>S/O</td> <td>Arjun Naik</td> </tr> <tr> <td>Date of Birth</td> <td>5<sup>th</sup> May 1998</td> </tr> <tr> <td>Gender</td> <td>Male</td> </tr> <tr> <td>Marital Status</td> <td>Single</td> </tr> <tr> <td>Nationality</td> <td>Indian</td> </tr> <tr> <td>Languages known</td> <td>English, Hindi, Kannada, Telugu.</td> </tr> <tr> <td>Computer skill</td> <td>MS Office, MS Excel, Tally. Internet.</td> </tr> </table>	Name	Dr. Prathap. A	S/O	Arjun Naik	Date of Birth	5 <sup>th</sup> May 1998	Gender	Male	Marital Status	Single	Nationality	Indian	Languages known	English, Hindi, Kannada, Telugu.	Computer skill	MS Office, MS Excel, Tally. Internet.
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### Research Interest

1. Review of literature in various fields of chemistry and material science.
2. Inorganic chemistry.
3. Nanotechnology.

4. Application of nanotechnology in optoelectronic.
5. Transition and inner-transition metals in nanotechnology.
6. Development of new synthesis techniques-especially low cost for large production.
7. SEM, TEM, XRD, UV-visible, and PL spectroscopy analysis.
8. Application of nanotechnology in LEPS.
9. Application of nanotechnology in the photocatalytic field.

➤ **Google scholar citation** : *h*-index: 2; i10-index: 0; citations: 35

➤ **Research Articles** : 06 (National and/International articles)

### Research papers published/in press/accepted/communicated

Sl. No	Articles (author)	Impact factor
6.	K.N. Harish, H.S. Bhojya Naik, P.N. Prashanth Kumar and <b>Prathap A</b> , "Synthesis, enhanced optical and photocatalytic study of Cd–Zn ferrites under sunlight", <i>Catalysis Science &amp; Technology</i> , 2012, 2, 1033–1039. <b>RSC publication</b> . 2044-4753 (print); 2044-4761 (web)	6.177
5.	Vishnu G, Simranjeet Singh, Noyonika Kaul, Praveen. Ramamurthy, TSSK Naik, R. Viswanath, Vijay Kumar, H.S. Bhojya Naik, <b>Prathap A</b> , Anil Kumara H A, Joginder Singh, Nadeem A. Khan "Green synthesis of nickel-doped magnesium ferrite nanoparticles via combustion for facile microwave-assisted optical and photocatalytic applications", <i>Environmental Research. Volume 235, 15 October 2023</i> , <a href="https://doi.org/10.1016/j.envres.2023.116598">116598.https://doi.org/10.1016/j.envres.2023.116598</a>	7.7
4.	<b>Prathap A</b> , H.S. Bhojya Naik, R. Viswanath, Maruthi Nayaka T.H, Kotresh K. R. Efficacy of datura metal leaf extract on MnSrO <sub>2</sub> NPs synthesized using a green method in terms of pollutant reduction and antimicrobial activity. Journal of Crystal Growth 642 (2024) 127796. <a href="https://doi.org/10.1016/j.jcrysgro.2024.127796">https://doi.org/10.1016/j.jcrysgro.2024.127796</a> ,	1.7
3.	<b>Prathap A</b> , H.S. Bhojya Naik, R. Viswanath, Vishnu G, Adarshgowda N. Kotresh K.R 2024. An effect of Datura metal leaves extract on photocatalytic and antimicrobial activity of MgO nanoparticles synthesized via a biogenic method. Chemical Data Collections 51 (2024) 101131. <a href="https://doi.org/10.1016/j.cdc.2024.101131">https://doi.org/10.1016/j.cdc.2024.101131</a> ,	-
2.	<b>Prathap A</b> , H.S. Bhojya Naik, R. Viswanath, Vishnu G 2024. Biogenic synthesis of Cd doped SrFe <sub>2</sub> O <sub>4</sub> nanoparticles using Datura metal leaves extract and its performance as photocatalytic agent for mixed dyes and electrochemical properties. Journal of Crystal Growth 630 (2024) 127590. <a href="https://doi.org/10.1016/j.jcrysgro.2024.127590">https://doi.org/10.1016/j.jcrysgro.2024.127590</a> ,	1.7
1.	<b>Prathap A</b> , H.S. Bhojya Naik, R. Viswanath 2024. Effect of datura metal leaf extract on Cd@ZnO NCs for pollutant reduction and antimicrobial activity. Chemical Data Collections 50 (2024) 101117. <a href="https://doi.org/10.1016/j.cdc.2024.101117">https://doi.org/10.1016/j.cdc.2024.101117</a> ,	-

### International/national Conferences, Seminars and Symposium (work presented)

1. Presented paper in Two-day National Conference on "Impact of Chemistry and Biology to the Society and Industry" (**ICBSI-2022**), on 20-21 May 2022, Organized by Department of Industrial Chemistry, Kuvempu University, Shankaraghatta.
2. Presented paper in International Conference on "**Recent advancements in chemistry**" on 23rd November 2022, Organized by Department of Chemistry, Field marshal K.M. Cariappa College, Madikeri.
3. Presented paper in two-day National Conference on "Recent Development in Chemical Sciences (**RDCS-2023**)" on 20th and 21st February 2023, Organized by Department of PG Studies and Research in Chemistry, Sahyadri Science College (A Constituent College of Kuvempu University), Shivamogga Dist., Karnataka, India.
4. Presented paper in three-day International Conference on "Biomaterials for Advanced Biological Applications" (**BABA-2024**) held during 14-16 February, 2024, organized by the Periyar University, Department of Chemistry, Salem-636 011, Tamil Nadu, India.
5. Presented Oral Presentation at the International Conference on "**Innovation in Sustainable Energy and Materials Science**" held on 1 & 2 March 2024, organized by the Jawaharlal Nehru New Collage of Engineering, Shivamogga, Karnataka, India.
6. Participated in one day National Webinar on "**Research Funding Agencies & Preparation of Research Proposals**" held on 14th August 2023. Organized by Research & Development Cell K.L.E. Society's Shri Shiva yogi Murughendra Swamiji Arts Science and Commerce College, Athani.
7. Participated in an International Webinar on "**Hierarchical Zeolites: Preparation Pathways and Potential Application**" organized by Adichunchanagiri University-Centre for Research and Innovation and School of Natural Sciences on 19th November 2021.
8. Participated in an International Webinar on "**Nano heaters for Biomedical Applications in Cancer Treatments**" organized by Adichunchanagiri University-Centre for Research and Innovation and School of Natural Sciences on 10th December 2021.
9. Participated in an International Webinar on "**Two Dimensional Nanostructures for Energy Conversions and Storage Applications**" organized by Adichunchanagiri University-Centre for Research and Innovation and School of Natural Sciences on 24th December 2021.
10. Participated in an International Webinar on "**Hierarchical Zeolites: Preparation Pathways and Potential Application**" organized by Adichunchanagiri University-Centre for Research and Innovation and School of Natural Sciences on 26th November, 2021.
11. Participated in International Webinar on "**Research Methodology and Quality Research Publication**" organized by Government Arts and Science College (Autonomous) Karwar, Karnataka, India, on 8th August 2023.

### Student projects guided

M.Sc Industrial Chemistry students were guided for the project work as a part of their curriculum

**1. Synthesis, characterization, and optical properties of ZnS/MnS/ZnS nanocomposites-2022.**

In this work, semiconductor nanocomposites were synthesized and the dual properties of the dual metals were used for optoelectronic application. Different analysis techniques such as TEM, XRD, UV, and Photoluminescence.

**2. “Facile phytosynthesis of Cd:SrFe<sub>2</sub>O<sub>4</sub> Nanoparticles using Datura metal leaf extract: as Organic dye degradation and antimicrobial application”-2023.**

This work describes the synthesis and the effect of Cd as a dopant on the optical properties of SrFe<sub>2</sub>O<sub>4</sub> nanoparticles, which resulted in the enhancement of the **Organic** dye degradation and antimicrobial application.

**3 “Synthesis of Cd, Gd Co-doped SrFe<sub>2</sub>O<sub>4</sub> nanoparticles using Datura metal leaf extract and its performance as Optical and Photocatalytic applications”-2024**

This work indicates that the tuning of optical band gap and photoluminescence can be achieved by controlling the Cd, Gd Co-doped concentration in SrFe<sub>2</sub>O<sub>4</sub> nanocrystalline. The prepared samples have Optical applications in the fabrication of Photocatalytic applications.

### Declaration

*“I hereby confirm that the above-mentioned information is true to the best of my knowledge and belief.*

**Date:**

**Place:**

**(Prathap A)**