

SARATH K

BANGALORE, KARNATAKA, INDIA

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linkedin.com/in/sarath

PROFILE

Enthusiastic Chemist eager to contribute to team success through hard work, attention to detail, and excellent organizational and technical skills. A clear understanding of Instruments and Research Fields and training in Chemistry and dedicated to working hard to make positive contributions. I strive to bring out the best of my ability in everything I do.

INSTRUMENTS AND SKILLS

- HPLC (Normal phase and reverse phase)
- I.R Spectroscopy
- Karl fischer autotitrator
- Loss on drying
- Hydro distillation
- Ultrasonicator
- Synthesis of perovskite Nano particles
- Heavy metal ion detection by cyclic voltametry, electrochemical workstation
- Microsoft Office, Excel.

PROJECTS AND INTERNSHIP

- **Project intern: CFTRI MYSURU. (July 2019- August 2019)**
 - Extraction of zerumbone from shampoo ginger by Hydro distillation.
 - Identification and quantification of zerumbone by chromatographic techniques such as gas chromatography, column chromatography and thin layer chromatography.
- **SYNTHESIS OF NANO Cs₄PbBr₆ BY SIMPLE METHOD AND ITS POLYMER NANOCOMPOSITES FOR PHOTONICS APPLICATION**
 - Zero dimensional perovskite which have various photonics application has successfully synthesised using the new and simple method.
 - And the stability challenges that facing perovskite were solved by the use of perovskite polymer composite approach.
 - The surface morphology, optical properties, structure, chemical composition are studied by using, SEM, UV-Visible spectroscopy, XRD and EDX respectively.
 - The results showed that the perovskite polymer composite approach increases the stability of perovskite towards heat, UV, light and moisture.

RESEARCH PAPER

- Highly flexible, green luminescent down converting and hydrophobic Cs₄PbBr₆/PVDF polymer Nano composites for photonics and display applications

LANGUAGES

- English
- kannada
- Tamil

EDUCATION

- **Master of Science- Chemistry (CGPA-9.4) (2018-2020)**
JSS Science and Technology University, Mysuru.
- **Bachelor of Science in chemistry (CGPA-8.0) (2015-2018)**
Hi-Tech Arts and Science College, Vattoli.

STRENGTHS

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- Willing to learn and adapt to new opportunities and challenges.
- Business interaction, coordination and ability to handle multiple tasks.