

REVANTH D V

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Research Interests

My research experience spans across various domains, I'm particularly interested in the field of lithium ion batteries and would like to advance my career in Li-ion batteries.

Hands on Experience

HPLC, Vigor Glovebox, Electro Chemical Work Station, Particle Size Analyzer, TGA-DTA, FTIR, UV-Visible, Ball milling, chromatographic technics and software's Origin, Chemraw, Chem Sketch, Microsoft.

Professional Experience

- ❖ June 2020 – Present **Executive** currently operating instruments in research laboratory working on “**synthesis of aqueous rechargeable organicelectrode material for rechargeable Li-ion battery**”.

In day-to-day life as there is increasing in the demand for the portable electronics. It is urging the scientists for improved life cycle electronic storage devices. Over a conventional batteries aqueous rechargeable lithium ion battery (ARLB) provide a better safety, affordability and environmentally friendly. As electrode materials place an important role in ARLB from past years, organic electrode materials are promising candidate due to their sustainability, high electronegativity design flexibility. Our work focusses on synthesis of environmentally friendly organic electrode materials for ARLB.

- ❖ May 2020 – **Academictutor**

- ❖ Oct 2019 – Feb 2020 **Project Assistanthave** worked on “**synthesis and characterization of metal-ligand complexes**” beside this have worked on “**Low costAdsorption of dye from pollutant water using natural agriculture wastes**

(Manuscript under writing).

Water is one of the most supremecomponents in the environment. Water place acrucial role for all the leaving organisms. Due the discharge of large amount of printing, paper textile dyes in to the water it affects largely to the aquatic life as well as humans. Hence rapid removal dyes from water is very essential. Hence this work aims to investigate the adsorptive characteristics of dyes using natural adsorbent material. Batch of adsorbent experiments like dye concentration, different adsorbent dosage, pH studies, kinetic studies, isothermal studies, and thermodynamic studies, were carried out in order check the effective maximum adsorption of the material.

Education

- ❖ Master of Science, In-organic Chemistry
KLE's S. Nijalingappa College, Bangalore University, 2019.
- ❖ Bachelor of Science, (physics Chemistry Mathematics)
KLE's S. Nijalingappa College, Bangalore University, 2016.

Certification

- ❖ Global Environment Management from TECHNICAL UNIVERSITY OF DENMARK (DTU).
- ❖ English for Career Development from UNIVRSITY OF PENNSYLVANIA.
- ❖ Introduction to molecular Spectroscopy from UNIVERSITY Of MANCHESTER.
- ❖ Oil and gas industry operation and operating from DUKE UNIVERSITY.