

Education

PhD, Indian Institute of Technology, Madras

2017

M.Sc Chemistry, Nirmala College

2009

Muvattupuzha

Pure Chemistry

Research Experience

Ph.D. Research, IIT Madras

2012 – 2017

Thesis Title: DESIGN AND SYNTHESIS OF MULTI-COMPONENT SELF-HEALING HYDROGELS WITH SUPER ADSORPTION PROPERTIES

Chennai, India

Skills

Synthesis of polymer/low molecular weight gel system

Instrument Operation

Rheometer, Conductivity

Meter, Refractometer, IR,

UV, Fluorometer ,

Dynamic Light scattering

Hydrogel and organogel

Formulation,

Characterization and

superadsorption

Property analysis

Softwares/OS

MS-Office, Chemdraw,

Origin,

Interests

Applications of hydrogel, Aerogel, and organogel in water purification study.

Awards

Council of Scientific & Industrial Research-Junior Research Fellowship (CSIR-JRF)

Languages

English (Proficient) ♦

♦ **Malayalam** (Native) ♦

Hindi (Proficient)

Teaching

Supervised undergraduate and post graduategraduate students in their research project. Working as assistant professor in Sree Narayana College Nattika (Govt Aided Institution), Thrissur, Kerala, India

Selected Publications (Total: 3)

- Self-Assembly-Directed Aerogel and Membrane Formation from a Magnetic Composite: An Approach to Developing Multifunctional Materials, *ACS. Appl. Mater. Interfaces.* 9, 7619–7628** 2017
Balachandran Vivek and Edamana Prasad.
- Induction and Tunability of Self-Healing Property of Dendron Based Hydrogel Using Clay Nanocomposite,** 2016
J. Phys. Chem. B. 120, 5262-5271.
Balachandran Vivek and Edamana Prasad
- Reusable Self-Healing Hydrogels Realized via in Situ Polymerization, *J. Phys. Chem. B,* 119, 4881-4887** 2015
Balachandran Vivek and Edamana Prasad

References

Dr. Edamana Prasad, Professor, Indian Institute of Technology, Madras, India
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