

Dr. PRATHAP SOMU Profile



PRATHAP S B.E, M.TECH, P.HD (Engg)

Assistant Professor

prathap@karunya.edu, prathaps1987@gmail.com

Mobile No: 8763599460, 7892197581

ORCID: 0000-0002-3615-8200

SCOPUS ID : [57202019969](#)

Date of Joining : 02/12/2019

Academic Background

Degree	University	Year
Ph.D	National Institute of Technology, Rourkela	2020
M.Tech.	Visvesvaraya Technological University, Karnataka	2014
B.E	Visvesvaraya Technological University, Karnataka	2010

Courses Taught

- Tissue Engineering
- Stem Cell Technology
- Biochemical Thermodynamics
- Nanobiotechnology
- Biochemistry

Research Interests

- Nanomedicine
- Environmental Nanotechnology
- Tissue Engineering
- Biomaterials
- Bioprocess Engineering

TOP 5 RECENT PUBLICATIONS (give maximum 5)

- **Prathap Somu** and Subhankar Paul. Surface Conjugation of Curcumin with Self-assembled Lysozyme Nanoparticle enhanced Its Bioavailability and Therapeutic Efficacy in Multiple Cancer Cells. *Journal of Molecular Liquids*, 2021, 116623. <https://doi.org/10.1016/j.molliq.2021.116623> (First author, Impact Factor: **6.165**)
- **Prathap Somu**, Vineeta Singh, Subhankar Paul. Effective Removal of proteins using carbon-based nano adsorbent: Relevancy to the application of membrane-driven pre-water treatment. *Journal of Chemical Technology & Biotechnology*. 2021. <https://doi.org/10.1002/jctb.6737> (First author, Impact Factor: **3.174**)
- Sohel Das, **Prathap Somu** and Subhankar Paul. Visible Light Induced Efficient Photocatalytic Degradation of Azo dye into nontoxic byproducts by CdSe Quantum Dot Conjugated Nano Graphene Oxide. *Journal of Molecular Liquids*, 117055. <https://doi.org/10.1016/j.molliq.2021.117055> (Co-author, Impact Factor: **6.165**)
- **Prathap Somu** and Subhankar Paul. Supramolecular nanoassembly of lysozyme and α -lactalbumin (apo α -LA) exhibits selective cytotoxicity and enhanced bioavailability of curcumin to cancer cells. *Colloids and Surfaces B: Biointerfaces*, 2019, 178, 297-

306. <https://doi.org/10.1016/j.colsurfb.2019.03.016> (First author, Impact Factor: 5.268)

- Amballa Chaitanyakumar, Kanti Kusum Yadav, Levin Anbu Gomez, **Prathap Somu***, Saarumathi Senthoo, PW Jayakumar Choudhury, Saktishree Jena, Chetan Shekhar Karua, Rajendra Prasad, Shiva Prasad, Chandrappa Chinna Poojari. Biogenically engineered silver nanoparticles using bael leaf extract and evaluation of its therapeutic potential. Materials Technology (2021): 1-12.

<https://doi.org/10.1080/10667857.2021.1965701> (Corresponding author, Impact Factor: 3.846).