

## Dr. P. Ramesh Kumar's Profile



**Dr. P. Ramesh Kumar** M.Sc, M.Phil, Ph.D

Assistant Professor

Department of Agriculture

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Academic Background

Degree	University	Year
Ph.D. (Biotechnology)	Karunya Institute of Technology and Sciences, Coimbatore	2017
M.Phil. (Coastal Aquaculture)	Manonmaniam Sundaranar University, Tirunelveli	2006
M.Sc. (Plant Biotechnology)	St. Xavier's College (Autonomous) Sundaranar University, Tirunelveli	2004
B.Sc. (Plant Biotechnology)	St. Xavier's College (Autonomous) Sundaranar University, Tirunelveli	2002

### Courses Taught

- Fundamentals of Biochemistry and Biotechnology
- Crop Physiology
- Introduction to Biotechnology
- Plant tissue culture
- Biotechnology lab II
- Bio-techniques and instrumentation
- Aquatic ecology and environmental impact assessment of water resources projects
- Cell biology, molecular biology and microbiology lab
- Bacteriology mycology and parasitology
- Ecosystem management

- Extraction and Characterization of compounds or targets from *Sauropus androgynus* for Obesity and Diabetes and purification of that targets for product development.
- Computational Genetic engineering approach to improve phytochemical components concentration in *Sauropus androgynus*.
- Development of sensors for on-site soil health monitoring
- Development of Nanodelivery system for bioactive compounds of *Sauropus androgynus* (L.) in the treatment of diabetes

## MOST RECENT PUBLICATIONS

- NT Manikandanath, RS Rimal Isaac, S Sanjith, **P Ramesh Kumar\***, ES Anooj, Sugumari Vallinayagam (2021) “Superb catalytic activity of as-green synthesized copper ferrite's thermal decomposition of ammonium perchlorate”. Journal of Molecular Structure. 1234: 130161
- S Bagavathy, **P Ramesh Kumar\***, P Anantha Christu Raj, B Stalin, (2021) “Frequency measurement through electric network analyzer for ultrasonic machining of steel”. Materials Today: Proceedings 45: 1775-1778
- A Jayapradha, G Jims John Wesley, G Vimalarani, **P Ramesh Kumar\***, Ram Subbiah, S Maniraj, (2021) “Mathematical modeling and investigation on aluminium bronze MMC using ECM process”. Materials Today: Proceedings 45: 2121 – 2124
- Anantha Christu Raj, J Samson Isaac, **P. Ramesh Kumar\***, Dhanasony,S Prabakar, (2020) “Green Transportation Technology Based on Ergonomic Posture Monitoring for Enhanced Driver Safety System”. Journal of Green Engineering (JGE), 5(3): 12498-12506.
- Sanjith S, **P. Ramesh Kumar \*** and Gopukumar ST (2020) “:Computational Modelling of Carbon Nanocapsule with Nanotube and Fullerene C60”. Nanomedicine & Nanotechnology Open Access, 10(11): 1-3.
- P. Anantha Christu Raj, **P. Ramesh Kumar\***, Dayanand Peter (2019) Generalized Predictive Controller Design for Compressed Air Distribution International Journal of Innovative Technology and Exploring Engineering (IJITEE) 8(9): 18-22.
- P. Anantha Christu Raj, **P. Ramesh Kumar\***, Dayanand Peter (2019) “Three-Axis Force Measurement Using Capacitive Sensor for Object Detection”. International Journal of Innovative Technology and Exploring Engineering (IJITEE) 8(8): 561-567.
- R.Jegan, P.AnanthaChristu Raj, **P.Ramesh Kumar\*** and W.S.Nimi, (2018) “Development of Mechanical Based Solar Panel Tracking System Using FPGA”. International Journal of Mechanical Engineering and Technology, 9(11):1667–1674.

- **P. Ramesh Kumar\*** and Philomena George. (2016) “Activity of *Sauropus androgynus* L. leaf extract against inflammation and its immunomodulatory effect in Swiss albino mice.”. International Journal of Advanced Biotechnology and Research, 7(2): 621-633.
- **P. Ramesh Kumar\*** and Philomena George. (2015) “Antidiabetic effects of *Sauropus androgynous* L. Leaves in alloxan induced diabetic mice”. Journal of Pure and Applied Microbiology, 9 (3): 2565-2570.