



VVR Challa

34, 06-05-1979

Physics

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INDIA

I working on fabrication of (OLED, NDR, Solar cells and Organic memory) devices for Organic/Nano Electronics. I finished my Ph.D in India on Dielectric constant measurement for liquids and solids for Scientific instrumentation. After completion of my doctoral degree I worked as an Lecturer for 2 years. I worked as an Assistant Professor in Dongguk University for one year. I also worked as an Postdoctoral Research fellow at University of Johannesburg for one year. Right now, I am acting as an Associate Editor for International Journal of Advanced Engineering and Global Technology (IJAEGT). I also acting as an reviewer for International journals & Conference Proceedings.

CURRENT RESEARCH

Topic

Organic/Nano Electronics: Fabrication of Organic memory, LED, NDR and solar devices.

Methodology

- Device structure
- Device fabrication using solution based-spin cast process
- Film deposition
- Surface Characterization
- Device Characterization (Electrical)

Application

Replacement of silicon technology.

UKZN main Publications

1. **CH.V.V.Ramana**, M.K.Moodley, V.Kannan and A.Maity, "**Solution based-spin cast processed organic bistable memory device**", *Solid State Electronics*, **Vol.81**, pp.45-50 (2013).
2. A.Maity, **CH.V.V.Ramana** and M.K.Moodley, Book Chapter-"**Carbon Nanotubes-Based Sensors**", , ISBN 978-1-62081-918-0, Nova Science Publishers, Inc. located in Hauppauge, New York, USA (2013).
3. 4 more journal Publications (excluding the above).

Past Researches

My Past Research Fields: Design and development of Scientific Instruments (Microcontrollers, PC based Instrumentation, Embedded based Systems and Digital Design) && Electric and Dielectric studies (for Liquids, solids, fluids, natural fibres/fabrics and natural composites).

1. **CH.V.V.Ramana**, "Dielectric constant measurement for liquids and solids (Design, development, embedded and applications)", ISBN 978-3-8433-7875-8, LAP Lambert Academic Publishers, Germany (December 2010).
15 Journal Publications && 3 IEEE Conference Proceedings.

Future Interests

Research in Interdisciplinary topics and I want to work on well established international Research Organizations.

Extra Interests

Sports (Cricket, chess, shuttle), music, watching movies, tours and travel