

## **Dr. Santhi A BIODATA**

### **ACADEMIC PROFILE**

#### **EDUCATIONAL QUALIFICATIONS**

- PhD, awarded in 2008, CUSAT  
Broad area of Research “Nonlinear Optics and Photonics”
- CSIR JRF 2000
- M.Phil in Physics, 1999, CUSAT (78%)
- B. Ed., in Physical Sciences, M G University, 1998
- M.Sc. in Physics, M G University, 78% (II Rank), 1997
- B.Sc. in Physics, M G University, 91%, 1995

#### **RESEARCH EXPERIENCE**

- PhD from CUSAT, India (2002-2006), Nonlinear Optics, Photothermal studies, Nanoscience.
- Postdoctoral Fellow, University of Paris (SUD), France, (2006-2007), Photonic metamaterials.
- Postdoctoral Fellow, University of Brussels, Belgium, (2007-2008), Nonlinear Optics and Frequency conversion.
- INDO-SWISS exchange fellow, Dubendorf, Switzerland, 2010, Nanomaterials for photovoltaic applications.
- Guiding PG and M. Phil projects, St.teresa’s College, Ernakulam, (2010-present), Nanophotonics.

#### **PROJECTS HANDLED**

- INDO-SWISS project, funded by EMPA Switzerland and Govt. of India, “Nanomaterials for Photovoltaic Applications” Visiting scientist, 2010.
- Nonlinear optical and Photothermal characterization of semiconducting and metallic nanoparticles, UGC Research project, (2013-2015), completed

#### **OTHER DETAILS**

- Research guide of M G University from 2016 onwards, (UO NO. 6275/Ac AVI/1/RG/1095/2015 dt 25/11/2016) research dept. of Physics, St.Teresa’s College, Ernakulam.
- Book Authored “Nanoscope: An Introduction to Nanoscience and Nanophotonics” Med Tech, Scientific International, 2016

## RECENT 5 PUBLICATIONS

1. “**Enhancement of Fluorescence Emission from CdS sensitized ZnO Microrods Prepared through Hydrothermal Technique**”, Anusree S, Mathew S, Renjini Krishna M, Kailasnath M, *Santhi Ani Joseph*, Paper presentation, International conference on Photonics and solar Water Splitting, PSWS, 12, 13 March 2015
2. “**Synthesis and Characterization of ZnO Nanoparticles Prepared through Low temperature Hydrothermal Route**”, Anusree S, Muhbila, Banu C N, *Santhi Ani Joseph* Proceeding of International conference ICNB2014 at Barcelona, Spain , Dec 18-20, 2014,
3. “**Nonlinear optical characterization and measurement of optical limiting threshold of CdSe quantum dots prepared by a microemulsion technique**”, S. Mathew, Amit D. Saran, *Santhi Ani Joseph*, Bishwajeet Singh Bhardwaj, Deep Punj, et. al, [Journal of Materials Science: Materials in Electronics](#), March 2012, Volume 23, Issue 3, pp 739–745,
4. “**Synthesis of monocrystalline zinc oxide microrods by wet chemical method for light confinement applications**”, Aparna Thankappan, Misha Hari, S. Mathew, *Santhi Ani Joseph*, Rolf Erni, Debajeet Bora, Artur Braun, V.P.N. Nampoori, *Physica E: Low-dimensional Systems and Nanostructures*, Volume 44, Issue 10, July 2012, Pages 2118-2123
5. “**Thermal diffusivity of nanofluids composed of rod-shaped silver nanoparticles**”, *International Journal of Thermal Sciences*, Misha Hari. ,*Santhi Ani Joseph.* ,B. Nithyaja. ,V P N Nampoori, [P. Radhakrishnan](#). Volume 64, February 2013, Pages 188-194,

## MAJOR CONFERENCES

- 1 Paper presentation, APOC, 2003, Wuhan, China,
- 2 Paper presentation, Photonics West 2005, San Jose, USA
- 3 Paper presentation, Indo French CEFIPRA Workshop, Bangalore
- 4 Paper presentation, European CMS, 2007, Coen, France
- 5 Paper presentation, ICMS, 2008, Bangalore,
- 6 Doctoral School, European Consortium, 2008, Netherlands
- 7 Solvay workshop on Quantum Optics, 2008, Belgium
- 8 Coordinator, Int. Conf. PSWS, 2015, India
- 9 Coordinator, Int. Conf., ICQP, 2016, India

## PERSONAL PROFILE

Name : Santhi A

Designation : Assistant Professor of Physics, St.Teresa’s College, Ernakulam

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