

Dr. Paulose Thomas

Designation : Assistant Professor
Date of Joining : 20th November 2017
Qualification : MSc, MPhil and PhD
Contact Address : Department of Physics
Mar Thoma College for Women
Perumbavoor, 683 542
Email: sijoagni@gmail.com
Mob: 9562132636



Membership in Professional

Organization : APT

Research Area : Structural, Linear & Nonlinear Optical and Electrical properties of Semiconductor Metal Oxide nanostructures

Papers Published in International Journals

1. **Paulose Thomas** and Abraham K E, Dielectric relaxation and AC conductivity mechanism of ecofriendly Fe₂O₃ hexagonal nanomorphotype, *Journal of Optoelectronics and Advanced Materials*, 19 (5-6) (2017).
2. **Paulose Thomas** and Abraham K E, Morphology dependent space charge polarization and relaxation of CdO nanomorphotypes, *Journal of Advanced dielectrics*, 6, 1650030 (2016).
3. **Paulose Thomas** and K.E.Abraham, Excitation wavelength dependent visible photoluminescence of CdO nanomorphotypes, *Journal of Luminescence*, 158, 422–427 (2015).
4. **Paulose Thomas**, Sreekanth P and K.E Abraham, Nanosecond and ultrafast optical power limiting in luminescent Fe₂O₃ hexagonal nanomorphotype, *Journal of Applied Physics*, 117, 053103 (2015).
5. **Paulose Thomas**, Sreekanth P, Reji Philip and K.E Abraham, Morphology dependent nanosecond and ultrafast optical power limiting of CdO Nanomorphotype, *RSC Advances*, 5, 35017 (2015).
6. **Paulose Thomas** and Abraham K E, Synthesis of iron oxide nanoparticles and study of its optical properties, ISSN: 0973-7464 Vol. XVIII: No. 1 & 2 *SB Academic Review* : 108-116 (2012).

Book Chapter

Paulose Thomas and Ajith James Jose, Dependence of Morphology on optical and electrical properties of metal oxide nanostructures, Apple Academic Press, Applied Chemistry and Chemical Engineering, Vol. 4 (2017)

Papers presented in National and International seminars

1. **Paulose Thomas** and Abraham K E, Study of AC electroluminescence of (ZnS,CuO) nanocomposite doped with Mn, Sr and Cl impurities, 29th Kerala Science Congress, (2017)
2. **Paulose Thomas**, Malavika and Ajith James Jose, Exploring optoelectronic applications of Chitosan nanocomposites, Ceneter for nanoscience and nanotechnology, VIT University, Vellore, ICNAN (2016).
3. **Paulose Thomas** Malavika and Ajith James Jose, Enhanced dielectric and electron transport mechanism of Graphene Oxide-PVDF nanaocomposite films, Ceneter for nanoscience and nanotechnology, VIT University, Vellore ICNAN (2016).
4. **Paulose Thomas** and Abraham K E, Dielectric polarization and relaxation of ecofriendly Fe₂O₃ hexagonal shaped nanostructures, ICMST international seminar, St. Thomas College, Pala, (2016).

5. **Paulose Thomas**, Akhil and Abrahan K E, Room temperature photoluminescence analysis on Mn doped and Sr co doped CuO nanostructures, National conference on current trends in materials science, Christian college, Chengannur, CTMS (2016).
6. Divya K.V, **Paulose Thomas** and Abrahan K E, Spectroscopic Ellipsometry and Photoluminescence Emission Studies on Antimony Trioxide Thin films, Photonics and Solar Water Splitting, St. Teresa's College (2015).
7. **Paulose Thomas** Jayachandran V.P and Abrahan K E, Synthesis, characterization and Antibacterial activity of CdO and Fe₂O₃metal oxide nanoparticles and endosulfan on diazotrophic bacteria, BIORADIANCE'14, Cytogenetics and applications, Pushpagiri research center (2014).
8. **Paulose Thomas** and Abrahan K E, Excitation wavelength dependent visible photoluminescence on CdO spherical nanomorphotype, National seminar on nanostructured materials (NSM-2014).
9. **Paulose Thomas** and Abrahan K E, Electrical and photoluminescence studies of CdO nanoparticles, Indo-US Workshop on Nano-Structured Electronic Materials: Challenges & Relevance to Electronics & Energy Research, CMET, Thrissur (2013).
10. **Paulose Thomas** and Abrahan K E, Structural and Dielectric analysis of luminescent CdO nanostructures, UGC Sponsored national seminar on smart materials for smart world SMSW (2012).
11. **Paulose Thomas** and Valsamma M George, Growth and Characterization of Calcium Strontium Phosphate crystals by Gel method, Indian Science Congress to be held in Trivandrum (2010).
12. **Paulose Thomas** and George Vargehese, High temperature XRD studies of ZnO nano powder prepared by precipitation method, National workshop on quantum confined systems and Nanoscale Devices, St.Thomas College, Pala (2009).