

Faculty Profile

Personal Details

Name: Dr. MARIYAM THOMAS

Department: Physics

Designation: Assistant Professor

Date of Joining: 28.10.2013

Educational Qualifications: Ph.D, M.phil, M.Sc, B.Ed

Professional Experience

Guest Lecturer, Fatima Mata National College, Kollam during the period 15.10.2012 to 15.03.2013

Guest Lecturer (M.Phil course), S B College, Changanacherry from 20.03.2013 to 26.010.2013.

Research Interests

- Luminescent properties and Solid State Lighting (SSL) Applications.
- Synthesis, structural analysis and characterization of inorganic phosphors for WLED applications.
- Materials for waste water treatment.

Major and Minor Projects

KSCSTE Student Project 2018-19

Positions held in College

SSP Coordinator, Urjakiran Coordinator, Jesus Youth in charge Quiz club coordinator, TROP coordinator, Placement cell co ordinator, PG Camp Officer.

Publications

- Influence of cation substitution and activator site exchange on the photoluminescence properties of Eu³⁺-doped quaternary Pyrochlore oxides Inorganic Chemistry, ACS Publications Volume 52, Issue 23, pg.no:13304,(2013).
- Effect of Zr⁴⁺ and Si⁴⁺ substitution on the luminescence properties of CaMoO₄:Eu³⁺ red phosphors, Journal of Material Science: Materials in Electronics Volume 25, Issue 5, pg. no. 2387- 2393.(2014).
- Structural influence on the photoluminescence properties of Eu³⁺ doped Gd₃MO₇ (M=Nb,Sb,Ta) Red Phosphors, Physical Chemistry & Chemical Physics, Volume 16, Issue 32, pg. no. 17108- 15.(2014).

Refresher and Orientation Course Attended

Refresher course on Materials preparation and Measurement of properties during September 01-15, 2017 organized by Science Academies at IASc, Bangalore.

157th Orientation Programme from 28.02.2018 to 27.03.2018 organized by UGC at UGC HRDC, Kariavattom.

Paper Presentations in Seminars/Conferences Attended

- Removal of Heavy Metal Ions from Water Using Iron Oxide Nanoparticles. Pg. No. 87-90. Proceedings of National Seminar on Annual Physics Symposium 2016-17, ISBN: 978- 93-5291- 787-7.
- Study on the removal of heavy metal ion from water using ZnO nanoparticles. Pg. No. 116-121. Proceedings of National Seminar on Annual Physics Symposium 2017-18. ISBN:978-93-5291-017-5
- Investigation on the Removal of toxic Chromium Ion from Waste Water using Fe₂O₃ Nanoparticles. Materials Today Proceedings ISSN: 2214-7853