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Raju Kumar, Integrated M.Sc. in Photonics

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Education

Apr 2011 – May 2016 **Cochin University of Science and Technology**
Integrated MSc, Optics and Photonics
Cochin, Kerala, India

Research Experience

- Dec 2016 – present* **PhD Student**
Technical University of Denmark, Center for Nuclear Technologies
, Denmark
Project: Luminescence Physics.
- Dec 2015 – May 2016* **Master`s thesis visiting student**
Indian Institute of Technology Bombay, Department of Electrical Engineering
, India
Project: Fabrication and characterization of an organic-inorganic (PEDOT:PSS/Si) hybrid solar cell.
- May 2015 – Jul 2015* **Summer Intern**
University College Cork, Department of Physics
, Ireland
Project: Characterization of passively mode locked dual-section quantum dash laser subjected to optical feedback (Gain to Absorber)´.
- May 2014 – Jul 2014* **Summer Intern**
Indian Institute of Technology Madras, Department of Physics
, India
Project: Evolving TiO₂ semiconductor disc to perform photocatalysis using ultraviolet light and visible light.
- Dec 2013 – Apr 2014* **Research Assistant**
Cochin University of Science and Technology, International School of Photonics

, India

Project: Study of optical and structural properties of photonic crystals (chalcogenide glasses) .

May 2013 – Jun 2013 **Summer Intern**

University of Hyderabad, Advanced Centre for Research in High Energy Materials

, India

Project: Determination of nonlinear absorption coefficient, nonlinear refraction index, two photon absorption coefficient of Copper Tetra Tolytporphyrins (CuTTP) using Z scan technique in Nonlinear Optics.

Statistics

RG Score 6.57

Publications 3

Reads 190

Citations 0

Awards & Grants

Sep 2017 Award: The Peter Townsend Award

Oct 2016 Scholarship: PhD Scholarship at Denmark Technical University, Denmark for PhD studies.

Apr 2016 Scholarship: Travel Grant for attending PhD open day 2016 at ICFO, Spain. (did not attend, only qualified)

Jan 2016 Scholarship: Research Fellowship for carrying out Master Project at IIT Bombay

Jan 2016 Scholarship: ASPIRE fellowship for carrying out thesis project at IIT Bomaby.

Dec 2015 Scholarship: Research Scholarship at EPFL Switzerland for pursuing a nine months project. (Could not join, only qualified)

May 2015 Scholarship: Bihar Scholarship for academic session 2015-2016, by state government)

May 2015 Scholarship: Research Fellowship for carrying out summer internship in UCC, Ireland

May 2014 Scholarship: Summer Research Fellowship for carrying out summer internship in IIT Madras

Dec 2013 Scholarship: Summer Research Scholarship , University of Queensland, Australia. (did not attend)

- May 2013 Scholarship: ASPIRE fellowship for carrying out summer internship in University of Hyderabad
- Feb 2013 Award: Nalanda Endowment Award (for securing first rank in first semester of Int. MSc.)
- May 2007 Scholarship: Medha scholarship (5th rank among top 10 in High School exam)
- Dec 2006 Award: Sarath chandra-Prem chandra Award, a district label competition.

Skills & Activities

Skills and Interests Optoelectronics, Materials, Nonlinear Optics, Organic Photovoltaics, Semiconductor Device Physics, Thin Film Deposition, Thin Film Technology, Photovoltaics, Laser, Optics, Atomic, Molecular and Optical Physics, Photonics, Organic Solar Cells, Applied Physics, Thin Films and Nanotechnology, Silicon Solar Cells, Luminescent Materials, Radiation Physics, Photoluminescence Spectroscopy (PL), Optical Dating, Radiation Dosimetry

Languages English, Hindi

Scientific Memberships 1. SPIE (International society of optics and photonics)
2. Photonics 21

Journal Publications

- Raju Kumar, M. Kook, Andrew Sean Murray, Mayank Jain: *Towards direct measurement of electrons in metastable states in K-feldspar: Do infrared-photoluminescence and radioluminescence probe the same trap?*. Radiation Measurements 06/2018;, DOI:10.1016/j.radmeas.2018.06.018
- M. Kook, R. Kumar, A.S. Murray, K.J. Thomsen, M. Jain: *Instrumentation for the non-destructive optical measurement of trapped electrons in feldspar*. Radiation Measurements 06/2018;, DOI:10.1016/j.radmeas.2018.06.001

Conference Proceedings

- Declan Marah, Pramod Kumar, Haroon Asghar, Sanjay Keshri, Raju Kumar, John Gerard Mcinerney: *Pulse Characteristics of Passively Mode-locked Dual-section Quantum-dash Laser Subjected to Optical Feedback*. <http://ispald.web2.ncku.edu.tw/bin/home.php>, CentraleSupélec Metz, France; 11/2015