

Dr. Barik, Pushpendu



PhD Institution and Year :

Date of Joining IISc : Visva-Bharati University, 2013

Area(s) of Research : Photonics, Applied Optics (Expt.)

Name of the Post-doctoral Fellowship : Dr. D S Kothari Postdoctoral Fellow

Laboratory where currently working : Soft Nano Materials Physics Group (Prof. Jaydeep Kumar Basu)

Department : Physics

Email address and Telephone number : pbarik_mid1983@yahoo.co.in,
+91-8884866103

Topic(s) of Research :

- a) Broad Research Interests: Applied Optics (Expt.), Material Science (Expt.), and Condensed Matter Physics (Expt.)
- b) Main Research Interests: Light-matter interactions, Photonic-Plasmonic structures, Magneto-optics, Semiconductor Optics, nano-Ferroelectrics, Optical Properties of semiconductor nanostructure (mainly II-VI, IV-VI).¹⁰

Research Publications in IISc : No

Other accomplishments and recognition while in IISc :

Published a book chapter during IISc stay P. Barik, A. K. Singh, E. V. García-Ramírez, J. A. Reyes-Esqueda, J. S. Wang, H. Xi and B. Ullrich, (2016) Strongly Confined PbS Quantum Dots: Emission Limiting, Photonic Doping, and Magneto-optical Effects, in Advanced Magnetic and Optical Materials (eds A. Tiwari, P. K. Iyer, V. Kumar and H. Swart), John Wiley & Sons, Inc., Hoboken, NJ, USA. DOI: 10.1002/9781119241966.ch11

What information will be useful to post-docs if it is available on the post-doc page on the IISc Website ? List the items.

- a) Supervisor's Name of the postdoc fellow
- b) Should have a column for their previous research, academic and related experience (in short, portfolio type)
- c) Topic of research should be in two category - theoretical research and experimental research. Then, one may divide further into two - Broad Research Interests and Main Research Interests – so that anyone can recognize that fellow's actual research topic if they want.
- d) If possible, their full publication details (during IISc stay and previous publications) in short form.

A tweet about your post-doctoral experience in IISc :

"One can do almost everything what they will do at their postdoc stay in abroad"

The information in row-13 exclusively is my opinion - may be, my views are not correct. Thanking you, Dr. Puspendu Barik Soft Nano Materials Physics Group Department of Physics, Indian Institute of Science D Gate to ECE Rd, Devasandra Layout Bengaluru, Karnataka, India, 560012

Email: puspendu.barik@physics.iisc.ernet.in Mobile No.- +91-8884866103

Website: www.pbarikcoherence.in