

Summary of recent research, Photonic Crystals

Shahin Bagheri, MSc

Electronic Research Center (Tehran, Iran) & Universität Stuttgart

Abstract:

In my talk I summarize my recent research in these sections:

1. Fabrication and characterization of Organic Light Emitting Diodes (OLEDs).
2. Fabrication of Photonic Crystals for Waveguide, Optical filter and Anti reflection layer applications.
3. Some of my Voluntary Scientific Activity.
 - 3-1. Fabrication of LiNbO₃ Multi-functional Integrated Optical Chips (MIOC).
 - 3-2. Optical Design of a Sun Sensor based on a Quadrant Photodetector for Sun Tracking Systems.

During the talk I mainly focus on the fabrication of Anti Reflection layers using 2D Photonic Crystals and their application in efficiency enhancement of some Photodetectors.