Publications and Conferences

The thesis is based on following Publications:

1) A Case Study: Te in ZnSe and Mn doped ZnSe quantum Dots

2) One pot Synthesis, growth mechanism and optical properties of Zn$_{1-x}$Cd$_x$Se graded core/shell and alloy nanocrystals

3) Isoelectronic center in quantum dots and photoluminescence decay

4) Engineering of electronic energy levels in NCs

5) Effect of confinement potential on fluorescence intermittency in Zn$_{1-x}$Cd$_x$Se NCs

Other Publications:

1) White light generation by co dope Cu and Mn in ZnSe quantum dots
   Ch. Rajesh, **Kiran G. Sonawane**, Chinmay Phadnis, V. Sudarsan, and Shailaja Mahamuni (communicated).
2) Impact of lattice strain on optical properties of CdS nanocrystals


3) Synthesis and Optical Properties of copper-doped ZnSe quantum dots

Ch. Rajesh, Chinmay Phadnis, Kiran G. Sonawane, and Shailaja Mahamuni (communicated).

Conferences/ Seminars:

1) Isoelectronic center in quantum dot and luminescence decay


2) Photoluminescence decay in isoelectronic center doped ZnSe quantum dots

Kiran G. Sonawane, Ch. Rajesh, and Shailaja Mahamuni, poster presentation in 17th RAMAN memorial conference, Department of Physics, university of Pune, Feb 2012.

3) Electronic energy levels of ZnCdSe NCs

Kiran G. Sonawane, V. Sudarsan, and Shailaja Mahamuni, oral presentation in 18th RAMAN memorial Conference, Department of Physics, University of Pune, Feb 2013.