Name	Dr. Pankaj Poddar
Division	Physical & Materials Chemistry
Email	p.poddar@ncl.res.in
Phone	020-2590 2580, 0 9823 563 766
Fax	020-2590 2636

Education and experience

- PhD (2000) Jawaharlal Nehru University, New Delhi
- Post Doctoral Fellow (2000-2002) Tel Aviv University, Israel
- Post Doctoral Fellow (2002- March 2005) University of South Florida
- Scientist (April 2005- Continue) National Chemical Laboratory, Pune

Achievements

- CSIR Young Scientist Award 2008
- NCL Scientist of the Year Award 2010

Research subjects: Physical Chemistry, Materials Science

Research areas

- Drug molecule conjugation on nanomaterials, chemical/bio nanosensors.
- Nanomaterial chemistry for thermoelectric devices, solar cells, multiferroics.
- Magnetochemistry in nanomagnets

Recent publications

1. V. Bansal, P. Poddar…"Fungus-mediated biosynthesis of ferroelectric barium titanate nanoparticles", **JACS 128, 11958 (2006).**

2. "Extracellular Bacterial Synthesis of Protein Functionalized Ferromagnetic Co3O4 Nanocrystals and Imaging of Self-Organization of Bacterial Cells under Stress after Exposure to Metal Ions", Umesh Kumar, Ashvini Shete, Arti Harle, Oksana Kasyutich, W. Schwarzacher, Archana Pundle, Pankaj Poddar*, **Chemistry of Materials, 20, 1484-1491 (2008).**

2. R. Jagannathan,…. P. Poddar, "In-situ observation of antibiotic mediated concurrent growth of two distinct homogenous populations of gold nanoparticles in solution phase", **J. Phys. Chem. C, 113, 3478 (2009).**

3. "Mechanistic Study of Surface Functionalization of Enzyme Synthesized Ag and Au Nanoparticles using Surface Enhanced Raman Spectroscopy Technique", Raja Das, Ramya Jagannathan, Chandrashekhar Sharan, Umesh Kumar, Pankaj Poddar*, **J. Phys. Chem. C, 113, 21493–21500, (2009).**

4. "Design and In situ Synthesis of Cu-Based Porous Framework Featuring Isolated Double Chain Magnetic Character", Chandan Dey, Raja Das, Binoy Krishna Saha, Pankaj Poddar*, Rahul Banerjee*, **Chem. Comm., 2011.**