

## Dr. Kunjal Shah

Graduated and Post -Graduated from Mumbai University, he obtained Ph. D degree in Physics from University of Mumbai – BARC Collaboration Programme under the supervision of Dr. G. P. Kothiyal (BARC) in 2007. He worked as a Postdoctoral Fellow in Tata Institute of Fundamental Research (TIFR), Mumbai during 2006 – 2008 in supervision by Prof. Sudesh Dhar. He was also a Postdoctoral fellow in University of Witwatersrand, Johannesburg South Africa during 2009 – 2010 under the supervision of Prof. Somnath Bhattacharyya. Before joining National Center for Nanosciences and Nanotechnology, University of Mumbai as Scientist – C in 2012, he gained all important Industrial experience by working in Holographic Security Marking Systems Pvt Ltd as R & D Manager and in Aimil Ltd as Assistant Business Manager (Sales) respectively. He has published papers in various National & International Journals of high impact factors. He has all round experience in Academic Research, Teaching, Industry, Administration and Management.



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His main research of interest is broad and covers three main areas which includes: Synthesis & Characterization of Oxide Glasses such as Silicate, Borate and Phosphate Glasses. Applications of these glasses include preparation of chemically durable Glass – to – metals seals at low temperatures and incorporation and immobilization of lanthanide wastes into these Glasses. Secondly, Synthesis of Rare-earth based Intermetallic Systems and Characterization includes studying Electrical, Thermal and Magnetic properties at Low Temperatures and High Magnetic Fields using Physical Property Measurement System (PPMS). These are strongly correlated electron systems and generally used to study basic physics. Thirdly, Synthesis of bulk, thin films and nanoparticles of thermoelectric materials such as  $\text{Bi}_2\text{Se}_3$ ,  $\text{Bi}_2\text{Te}_3$  for improvement of Power factor or figure of merit (ZT) by increasing Seebeck co-efficient and electrical conductivity and decreasing thermal conductivity.

