

Dr. Piyush S. Solanki



Dr. Piyush S. Solanki is Assistant Professor in Physics working at Department of Physics, Saurashtra University, Rajkot. He has completed his B.Sc. and M.Sc. in Physics from Saurashtra University, Rajkot in 2002 and 2004, respectively. He has joined Department of Physics, Saurashtra University, Rajkot for his Ph.D. in June, 2004 and completed in July, 2010. He has been awarded for best research paper presentation award 02 in international and 01 in national events. He has been awarded with senior research fellowship (SRF) by CSIR, New Delhi. He has also been awarded for Fast Track Young Scientist by DST, New Delhi. He is working on functional oxide materials such as mixed valent manganites, multiferroics, diluted magnetic semiconductors, high temperature superconductors, metal oxides and ferrites. He has an expertise to work on polycrystalline bulk, nanostructures, powder composites, core-shell composites, thin films, devices, heterostructures, bilayers, multilayers, thin film composites and thin film interfaces consist of various functional oxides. He has capability to work with various synthesis methods and fabrication techniques such as solid state reaction route, sol-gel method, co-precipitation, chemical solution deposition, pulsed laser deposition and RF/DC sputtering. He has proficiency to deal with the research on some special techniques such as swift heavy ion irradiation, low energy ion implantation and temperature-magnetic field dependent neutron diffraction. He has also an expertise to deal with materials research including gas sensors, solar cells, high energy radiation and bio-physics based activities. Recently, 04 students have been registered for their Ph.D. as well as 07 students have been awarded for their M.Phil. under his guidance. He has published 109 international and 12 national research articles in reputed journals. He has also published 32 international and 16 national conference proceedings through various international and national events. He has been sanctioned for 06 research projects as principal investigator and 07 research projects as co-investigator. He has reviewed more than 160 research articles for different 19 internationally reputed journals and he has been recognized 09 times by IOP and Elsevier journals for his best quality reviews. He is also a member of advisory panel for IOP journal-Journal of Physics D: Applied Physics. He has a strong research collaborations with Sfax University, Tunisia; UGC-DAE CSR, Indore; UGC-DAE CSR, Mumbai; IUAC, New Delhi; IPR, Gandhinagar; Central University of Rajasthan, Ajmer; UGC-DAE CSR, Kalpakkam; IGCAR, Kalpakkam, S.P. University, V.V. Nagar and B.N. Sarda Science College, Sangamner, Maharashtra.