

List of Publications

Papers in Peer Reviewed Journals:

- Divya Somvanshi and S. Jit, Mean Barrier Height and Richardson Constant for Pd/ZnO Thin Film Based Schottky Diodes Grown on n-Si Substrates by Thermal Evaporation Method, *IEEE Electron Device Lett.*, 34, 1238-1240, 2013.
- Divya Somvanshi and S. Jit, Analysis of Temperature Dependent Electrical Characteristics of n-ZnO Nanowires (NWs)/p-Si Heterojunction Diodes, *IEEE Trans. Nanotechnology*, 13(1), 62-69, 2014.
- Divya Somvanshi and S. Jit, Pd/ZnO Nanoparticles Schottky Ultraviolet Photodiodes Grown on Sn Coated n-Si Substrates by Thermal Evaporation Method, *IEEE J. Sel. Top. Quant. Electron.*, 20, 3803106-01- 3803106-06, 2014.
- Divya Somvanshi and S. Jit, Effects of Sn and Zn Seed Layers on the Electrical Characteristics of Pd/ZnO Thin Film Schottky Diodes Grown on n-Si Substrates, *IEEE Electron Device Lett.*, 35(9), 945-947, 2014
- Divya Somvanshi and S. Jit, Effect of ZnO Seed Layer on the Electrical Characteristics of Pd/ZnO Thin Film based Schottky Contacts Grown on n-Si Substrates, *IEEE Trans. Nanotechnology*, 13 (6), 1138-1144, 2014.
- Divya Somvanshi and S. Jit, Analysis of I-V Characteristics of Pd/ZnO thin film/n-Si Schottky Diodes with Series Resistance, *J. Nanoelectron. Optoelectron.*, 9, 21-26, 2014.

Papers/poster presented in International Conference/Workshops:

- Divya Somvanshi and S. Jit, Fabrication and characterization of ZnO nanowires by thermal oxidation method," *Advanced Materials Research*, vol. 585, pp-124-128, 2012, International Conference on Advance in Materials Processing: Challenges and Opportunities (AMPCO-2012) in IIT Roorkee, India, Nov 2-4, 2012.
- Divya Somvanshi and S. Jit, Synthesis and characterization of tin catalyzed ZnO nanoparticles grown on n-Si substrate by thermal evaporation method, *Proc. SPIE*, vol. 8760, 87600G-1-6, 2013, International Conference on Communication and Electronic System Design (ICCESD-2013) NIT Jaipur, India, Jan 28-30, 2013.

- Divya Somvanshi and S. Jit, Catalyst free growth of ZnO nanorods by thermal evaporation method” *AIP Conf. Proc.*, vol.1536, pp.125-126, 2013, International conference on Recent trends in Applied physics and Material Science (RAM-2013) in Govt. college of Eng and technology, Bikaner, India, Feb 01-02, 2013.
- Divya Somvanshi and S. Jit, Electrical and optical characterization of Pd/ZnO nanorods (NRs) Schottky diodes grown on n-Si substrates, *AIP Conf. Proc.* vol.1591, pp.1425-1427 (2014), 58th DAE symposium on Solid State Physics, Thapar University, Patiala, India, Dec 17-21, 2013.
- Divya Somvanshi and S. Jit, Electrical characterization of n-ZnO NWs/p-Si based heterojunctions diode, *Chapter in Springer*, Physics of Semiconductor Devices Environmental Science and Engineering 2014, pp 589-592, International Workshop on Physics of Semiconductor Devices (IWPSD-2013), Amity University, Noida, U.P., India, Dec 10-13, 2013.
- Divya Somvanshi and S. Jit, Temperature dependent electrical characteristics of n-ZnO nanowires network/p-Si heterojunction diodes, International Conference on Nanoscience and Technology (ICONSAT-2014), INST, Mohali, Chandigarh, India, March 02-05, 2014.
- Divya Somvanshi and S. Jit, Catalyst-free Growth of n-ZnO Nanowires (NWs) on Al: ZnO Coated p-Si Substrates for n-ZnONWs/p-Si Heterojunction Photodiode Applications, International Conference on Optics and Optoelectronics (ICOL-2014), IRDE (DRDO), Dehradun, India, March 05-08, 2014
- Divya Somvanshi and S. Jit, Enhanced Electrical Characteristics of Pd/ZnO Thin Film Schottky Contact by Using Metal Zn Seed Layer, IEEE Nanotechnology and Materials and Devices conferences (IEEE-NMDC), Aci-Castello, Catania, Italy, Oct 12-15, 2014
- Divya Somvanshi and S. Jit, Electrical Characteristics of Pd/ZnO Nanowires (NWs) Based Schottky Diodes Grown on Zn Seed Layer Coated n-Si Substrates, 2nd IEEE International Conference on Emerging Electronics (ICEE-2014), Indian Institute of Science, Bangalore, India, Dec 3-6, 2014.