List of publications

1. “Effect of electron irradiation on gas sensing properties of Al-ZnO”
   Sunil C Vattappalam, Deepu Thomas, Simon Augustine and Sunny Mathew: Cogent Physics, 2, 1019664 (2015) 1-5


International/national seminar presentations


9. “Band gap and conductivity variations of ZnO nano structured thin films annealed under Vacuum”

10. “Enhancement in LPG sensitivity of Al-ZnO by electron irradiation”
   **Sunil C Vattappalam**, Deepu Thomas, Simon Augustine and Sunny Mathew: International Conference on Materials Science and Technology (ICMST 2016)


13. Oriented grain growth in ZnO thin films by Iodine doping
Deepu Thomas, Sunil C Vattappalam, Sunny Mathew and Simon Augustine:
International Conference on Materials Science and Technology (ICMST 2012),

14. Studies on effect of oxygen flow rate in textured grain growth of ZnO thin films
Deepu Thomas, Sunil C Vattappalam, Sunny Mathew and Simon Augustine:
International Conference on Materials Science and Technology (ICMST 2012),