

Seminar

Institute for Plasma Research

Title: Gas Sensing Performance Based on Tin Selenides
Speaker: Dr. Sanju Rani
National Physical Laboratory, New Delhi
Date: 20th September 2024 (Friday)
Time: 10:30 AM
Venue: Seminar Hall, IPR

Abstract

The necessity and significance of gas sensors are covered in this presentation. The current study focuses on the thermal evaporation technique (an industrially viable technique) for depositing SnSe/SnSe₂ heterojunction thin films, AuPd/SnSe₂ thin films, SnSe nanostructured thin films, and SnSe₂/SnO/SnSe heterojunction thin films. A greater knowledge of sensing's effects on the development of heterojunction is offered in this study. Gold palladium (AuPd) and Tin oxide (SnO) have both been studied for their impact on the properties of SnSe₂ and SnSe based gas sensors. To improve the functionality of the SnSe₂ and SnSe absorber layer for gas sensors application, a number of parameters must be studied.
