

प्लाज़्मा अनुसंधान संस्थान, गांधीनगर/ Institute for Plasma Research, Gandhinagar

शोध प्रतिवेदन, मई 2024 / Research Reports, May 2024

S. No.	Author	Title	Report Number
1	V. Gayathri Devi	Cryosorption Studies of Trace Levels of Hydrogen Isotopologues on MS 13X Zeolite	IPR/RR-1644/May 2024
2	Sudheer	Low power bio-mimetic behaviours in Au/TiOx/Ti synaptic device using oxygen ion implantation strategy	IPR/RR-1645/May 2024
3	Tarundeep Kaur Lamba	Minimization of anisotropic LSPR shift in sequentially grown Ag nanoparticles arrays over ion beam produced nanoripple	IPR/RR-1646/May 2024
4	Anand Visani	Generation of Dielectric Barrier Discharge Plasma on large area electrode at Atmospheric Pressure for Agriculture Applications	IPR/RR-1647/May 2024
5	Suman Aich	Real time vertical position estimation of plasma column using fast imaging in Aditya-u tokamak	IPR/RR-1648/May 2024
6	Sudip Sengupta	Sheet model description of spatio-temporal evolution of upper-hybrid oscillations in an inhomogeneous magnetic field	IPR/RR-1649/May 2024
7	Vikas Rathore	Investigation the role of Plasma-Activated Water Washing and Storage on the Shelf Life of Cestrum nocturnum L. (Night-Blooming Jasmine) Flowers	IPR/RR-1650/May 2024
8	Prince Kumar	Study on Kelvin Helmholtz shear flows subjected to differential rotation	IPR/RR-1651/May 2024
9	Kalyani Swain	Laser-cluster interaction in an external magnetic field: the effect of laser polarization	IPR/RR-1652/May 2024
10	Rana Pratap Yadav	An RF Based System for the Detection of Unmanned Aerial Vehicles (UAV)	IPR/RR-1653/May 2024
11	Renjith Kumar	Study of the dependence of background pressure on the dynamics of the re-deposition of a thin film in a rear ablation geometry	IPR/RR-1654/May 2024
12	Tulchi Ram	Effects of O-mode and X-mode on the dynamics of ECR produced plasma	IPR/RR-1655/May 2024
13	Sayantana Mukherjee	Efficient and Sustainable Solar Energy Utilization with Nanofluids in Direct Absorption Systems	IPR/RR-1656/May 2024

तकनीकी प्रतिवेदन, मई 2024/ Technical Reports, May 2024

S. No.	Author	Title	Report Number
1	Ashok Prajapati	Design & fabrication of lithium injector and its performance testing	IPR/TR-801/May 2024
2	Pramila	Literature Study and Compilation of Neutron Radiation Effects on Electronic Devices	IPR/TR-802/ May 2024
3	Deepak Mandge	Test Report on commissioning and I&C experiments of PILATUS-3 X-ray hybrid photon counting detector	IPR/TR-803/ May 2024
4	Pradip Panchal	Commissioning and Operational Experience of Cryocooler based Helium Circulation System at 55 K	IPR/TR-804/ May 2024
5	Praveenlal Edappala	Implementation of an active control of multiple gas puff pulses to counteract wall loading in the ADITYA Upgrade Tokamak	IPR/TR-805/ May 2024