

प्लाज़्मा अनुसंधान संस्थान, गांधीनगर/ Institute for Plasma Research, Gandhinagar
शोध प्रतिवेदन, जुलाई 2024 / Research Reports, July 2024

S. No.	Name	Title	Report Number
1	Vikas Rathore	A Nitrogen Alternative: Use of Plasma Activated Water as Nitrogen Source in Hydroponic Solution for Radish Growth	IPR/RR-1661/ Jul 2024
2	Vikas Rathore	Green Synthesis of Ammonium Nitrate (NH ₄ NO ₃) Fertilizer: Production via Plasma Water/Ice Interaction with Air and NH ₃ Plasma	IPR/RR-1662/Jul 2024
3	V. Gayathri Devi	Gas Chromatographic Separation of Hydrogen Isotopes using Plasma Activated Al ₂ O ₃ columns at 77.4 K	IPR/RR-1663/Jul 2024
4	Prince Kumar	Simple fluid approach for the nonlinear excitations in Yukawa fluids	IPR/RR-1664/Jul 2024
5	Hemang S. Agravat	Exploration of geometric parameters of Pillow plate panel for heat transfer and pressure drop criteria for the cryogenic application	IPR/RR-1665/Jul 2024
6	Ajaz Mir	Nonlinear Mixing of Waves in a Yukawa One Component Plasma	IPR/RR-1666/Jul 2024
7	Shishir Biswas	The Role of Helical and Non-Helical Drives on the evolution of Self-Consistent Dynamos	IPR/RR-1667/Jul 2024
8	A. Sarada Sree	Wide band reconfigurable salt water column antenna for RF communication	IPR/RR-1668/Jul 2024
9	P. Chandrakanta Singh	Generation of micro/nanostructures on the brass by nanosecond laser: a comparative study of LIBS signals for untextured and textured surface.	IPR/RR-1669/Jul 2024
10	Jagabandhu Kumar	Measurement of non-thermal Bremsstrahlung emission in presence of lower hybrid wave in SST-1	IPR/RR-1670/Jul 2024
11	Raj Singh	Minimisation of Phase Error of Antenna-Plasma Coupling Impedance Using Least Square Technique for Ion Cyclotron Range of Frequencies	IPR/RR-1671/Jul 2024
12	P. K. Sharma	LH launchers for tokamaks at IPR	IPR/RR-1672/Jul 2024

तकनीकी प्रतिवेदन, जुलाई 2024/ Technical Reports, July 2024

S. No.	Name	Title	Report Number
1	Varsha Siju	Recent Results from Electron Cyclotron Emission (ECE) Radiometer diagnostics in the presence of Electron Cyclotron Resonance Heating (ECRH)	IPR/TR-807/Jul 2024
2	Kirankumar K. Ambulkar	RF characterization of LHCD transmission line and high power divider section for ADITYA-U tokamak	IPR/TR-808/Jul 2024
3	Rachana Rajpal	Electronics, Data Acquisition and Control Systems for Aditya-U Tokamak	IPR/TR-809/Jul 2024
4	Pravesh Dhyani	Setup for External-q Experiments in Current-less Plasma of Basic Experiments in Toroidal Assembly (BETA)	IPR/TR-810/Jul 2024
5	Naresh Chand Gupta	Finite Element Analysis of Pipe Bridge for Centralized LN2 and GN2 Distribution piping	IPR/TR-811/Jul 2024