

CSIR-NIScPR



A CSIR Publication

Indian J Pure & Appl Phys (Monthly)
AUGUST 2025
Volume 63 (08) 671-760 (2025)
CODEN: IJOPAU
ISSN: 0019-5596 (print); 0975-1041 (Online)
ijpap@niscpr.res.in

Single Copy: ₹512.00 \$ 66.00
Annual Subs: ₹5120.00 \$ 660.00

Indian Journal of Pure and Applied Physics

JCR-2022
Impact Factor
0.7

IJPAP
128


National Institute of Science Communication and Policy Research
सीएसआर-निसिप्र

Published by
CSIR-National Institute of Science Communication
And Policy Research
New Delhi, INDIA

<https://niscpr.res.in>

Indian Journal of Pure & Applied Physics

<http://www.niscpr.res.in>; <http://nopr.niscpr.res.in>;
Impact Factor: 0.6 (JCR 2023)

VOLUME 63

NUMBER 8

AUGUST 2025

CODEN : IJOPAU 63(8) 671-760

ISSN: 0019-5596 (print); 0975-1041 (Online)

CONTENTS

Papers

- | | |
|---|-----|
| Influence on Key Properties of Mn ²⁺ Doping in L-ornithine Monohydrochloride Single Crystals: A Non-Linear Optical Material
Shish Pal Rathee, Dharamvir Singh Ahlawat & S S Hooda | 677 |
| Variation of Structural, Optical, and Electrical properties of CuAl-SnO ₂ /Ag/CuAl-SnO ₂ with Ag Layer Thickness
Anju Dutt, Harpreet Singh, Sangeeta, Sandeep Grover & Anand Kumar | 684 |
| Exploring the Active Realization of Analog Multi-Level Memristors for Neuromorphic Applications
Shubhangi Saxena & K Manjunatha Chari | 692 |
| Modified Surface and Tuned Optical Band Gap of Polymer Nanocomposite Thin Films
Gurpreet Kaur Bhullar, Gagandeep, Seema Maheshwari, Rishi Kumar & Ramneek Kaur | 698 |
| Analysing the Charge Distribution and Transmission of Carbon and Oxygen in Nitrogen Gas using Tandem Accelerators
Meetha Lal Meena | 707 |
| Dual Aperture Diffractive Beam Combiner Consisting of Four Holographic Lenses: Application to Visible Light Lithography
Shweta Yadav, Rashmi Sinha & Nirmalendu Deo | 713 |
| Adaptive Hybrid ANN and Incremental Conductance Approach for Maximum Power Point Tracking in Solar PV Systems
Rahul Kumar Rai & Umesh Kumar Sinha | 719 |
| Implementation of an Empirical Acoustic Channel Model Using OFDM-DWT Technique
Kadali Lakshmi, Ashraf Hossain & Kavicharan Mummaneni | 741 |
| Investigation of Gas Diffusion by using Bout++ Fluid Simulation: Role of Density Gradient
Gaurav Kumar | 750 |