



# IOSR Journals

International Organization  
of Scientific Research

# IOSR Journal of Applied Physics

e-ISSN : 2278-4861

Volume : 18 Issue : 1

Jan. – Feb. 2026

IOSR-JAP

## Contents:

|  |       |
|--|-------|
| Magnetic And Spintronic Prospects Of Europium-Substituted Neodymium Ferrite Perovskite Nanomaterials: Structure-Property Correlations And Emerging Functionalities | 01-04 |
| Fluorescence Study Of 4-(4-Nitro-Phenoxymethyl)-Benzo[H]Chromen-2-One (NM2BC)  | 05-09 |
| Effects Of Galaxy Environment On The Concentration Index Classification Tool   | 10-14 |
| Functional Properties Of Eu-Doped Strontium Ferrite Perovskite Nanomaterials For Magnetic, Catalytic, And Energy Applications                                      | 15-24 |
| Synthesis And Characterization Of ZnO Thin Film By Spray Pyrolysis Technique   | 25-28 |
| The Mechanism Of Light Speed As Ultimate Particle Speed In LHC   | 29-39 |
| Influence of Natural Dye Extract on the Optical Properties of Zinc Antimony Sulphide( $ZnSb_2S_4$ )  | 40-43 |
| Wilson Loops As Probes Of Phase Transitions And Conductivity Phenomena   | 44-47 |
| Estimation Of Activity Concentration Of Uranium, Thorium And Potassium, By Using HPGe Detector   | 48-51 |
| Computational Analysis And An Excited-State Intramolecular Hydrogen Atom Transfer Investigation On Ortho-Vanillin: A Micro-Solvation Study                         | 52-59 |
| Evaluation Of Radiological Health Risks And Seasonal Variations In Gamma Radiation Exposure At Dumpsites In Cross River State, Nigeria                             | 60-72 |