

Physical & Environmental Science Bulletin

Volume 1, Number 2, December, 2013

Contents

- 1. Structural and Optical Properties of Y₂O₃:Er³⁺/Yb³⁺ Nano-Crystalline Phosphor: Effect Of External Temp**
A. DWIVEDI, C. JOSHI and S.B. RAI
- 2. Radiation Patterns of Hollow Dielectric Wall Diagonal Horn Antennas**
V N TIWARI and T TIWARI
- 3. Molecular Structure, Spectroscopic Studies of Sacrosinium Trifluoroacetate: A DFT Approach**
D. MANIMARAN and I. HUBERT JOE
- 4. Study of Thermo-Electric Power of Potassium at Low Temperature**
ABHAY KUMAR YADAV, RAJENDRA RAUT, MANOJ KUMAR and RAM CHANDRA JHA
- 5. A Simple Model for the Vortex Core in Type II Superconductor**
MANINDRA KUMAR and CHANDAN KUMAR MISHRA
- 6. Performance Analysis of the Thermal Solar Cookers**
SANTOSH KUMAR And SUBODH YADAV
- 7. Photonic Crystal as a Substrate for Patch Antennas**
PRAKASH NAYAK and DHIRENDRA KUMAR
- 8. Study of Circular Microstrip Patch Antenna Polarization**
MANISH KUMAR, GAURI SHANKAR and N.K.SINGH
- 9. Study of Room Electromagnetics**
MANJULA SINHA and PAPPU PASWAN
- 10. Study of S-Band U-Slot Stacked Patch Antenna Using Different Dielectric Constant Materials**
DEVENDRA PRASAD
- 11. Bandwidth Analysis of Microstrip Antenna using Artificial Neural Network**
RANJEET KUMAR and SHYAM DEO YADAV
- 12. Prediction of Far-Zone Radar Cross Section from Near-Field Transformation on Image Based Technique**
BINOD KUMAR JHA, BACHA JHA and AMRESH JHA
- 13. Importance of Electronic-Communication Media**
BIJAY KUMAR CHOUDHARY
- 14. Study of Multiband DRA for Mobile Communication: An Overview**
SUNITA KUMARI
- 15. A Study of Ruthenium (III) Complexes with Ligands having N/O/S as Donor Atoms 1**
PARSURAM PRASAD SINGH, RICHA KUMARI, ANJIT KR. THAKUR, RAJESH KR.
MISHRA, Y. JHA, S. N. JHA and B. G. THAKUR
- 16. Impact of Polycyclic Aromatic Hydrocarbons on Living Organism**
SHIV BRAT MAHTO and AWADHSH MAHASETH

17. Antibacterial Studies of Metal Complexes with Antibiotic Amoxicillin

KAMLODVAB JHA, BINAY KUMAR JHA, MANOJ KUMAR JHA, ALOK KUMAR, SUDHIR KUMAR MISHRA, VIJAY KUUMAR JHA and ASHOK KUMAR

18. Application of Differential Equation in Different Disciplines as a Mathematical Model

MD. ALAM and AVINASH KUMAR MISHRA

19. Cyclotomic Sets

SHANKAR KUMAR JHA, H. C. JHA and AYAZ AHMAD

20. Set Theoretical Category Theory

KALPANA KUMARI and HARISH CHANDRA JHA

21. Management of Alternaria Alternata with the extract of Thevetia Leaf

A.M. MISHRA, KAPILESHWAR MISHRA and AMITA KUMARI MISHRA

22. Study of Anxiety problem faced by HIV Infected Persons

SANGITA KUMARI SAHA