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Professor

Degree: Ph.D in Plasma Physics
University: Tribhuvan University
Specialization: Theoretical Physics

Research Interest

Quantum theory of radiation and its interaction with atoms, thin film deposition and water treatment by photo-catalytic effect using thin film

Publication

1. *Modeling of Thermal Transport using Fokker-Planck Equation in Laser produced Plasma*, Proceeding of the 1996, ed. Hugai and Hayashi, p-1662, 1996
2. *Strong Magnetic Field Generation in Laser-Plasma*, Journal of Nepal Physical Society, 13, 1, 1996
3. *Analytical Derivation of Thermal Transport as a Function of Self Generated Magnetic field in Inertial Confinement Fusion Plasma*, Proceedings of IInd National Conference on Science and Technology, RONAST, 1994
4. *Non-local Model for Thermal Transport in Lorentz Plasma*, The Nepali math. Sc. Report, 16, 91, 1997
5. *Inhibition of Thermal Transport in Lorentz plasma due to Self consistent Electric field*, Journal of Nepal Physical Society, 15 30, 1998
6. *Effect of Pondermotive Force on Self Generation of Magnetic Field and Absorption Coefficient in Laser Plasma*, Proceeding of IIrd National Conference on Science and Technology, RONAST, p-408, 1999
7. *Effect of Finite but Weak Electron Inertia delay on Plasma Sheath formation (Recently presented at 18th national symposium on plasma science and technology, PLASMA-2003, Birla Institute of Technology, Mesra, Ranchi, Dec. 08-11, 2003)*
8. *Theoretical study of Self Generation of Magnetic field due to Resonance absorption of light Laser light in Plasma*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1748, 2004
9. *Theoretical Study on Thermal Transport in Laser Plasma by using Fokker-Planck Model*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1755, 2004
10. *Laser Absorption in Plasma by Inverse Bremsstrahlung*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1763, 2004

11. *Theoretical study of Absorption of radiation in Plasma*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1770, 2004
12. *Theoretical study of Effect of Finite but Weak electron inertia on Plasma Sheath Formation*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1782, 2004
13. *Time Correlation function Expression for the Thermal Transport Coefficients*, Proceeding of IVth National Conference on Science and Technology, NAST, p-1878, 2004
14. *Study of the Stimulated Brillouin Instability in the Underdense Plasma Region Heated with Laser Light*, Journal of Institute of Science and technology, TU, p-111, 2007-08
15. *An Introduction to Multiphoton Ionization and Study of ionization rate of Hydrogen Atom*, IIIrd IUPAP International Conference on Women in Physics, 8-10 Oct 2008, Seoul South Korea
16. *Properties of ZnO:Al Films Prepared by Spin Coating of Aged Precursor Solution*, Bulletin of Koren Chemical Society, 31, 112-115 (2010)
17. *Synthesis And Study of Structural, Optical and Morphological Properties of ZnO Thin Films and Their Application in Photoelectrocatalytic Inactivation of Esherichia Coli*, Journal of American Academic Research (JAAR), 3 (12), 1-19 (2015)
18. *One, Two and Three Photon Absorption in Atomic Hydrogen*, Nepal Journal of Science and Technology, 12, 324-329 (2011)
19. *An Introduction to Multiphoton Ionization and Study of Ionization Rate of Hydrogen Atom*, The Himalayan Physics, 3, 40-43, (2012)
20. *An Angular Distribution of Three Photon Ionization in Presence of Multiple Laser Beams*, Journal of Nepal Physical Society, Vol. 3, 18-23, (2015)
21. [*Dye-sensitized solar cell using extract of Punica granatum L. pomegranate \(Bedana\) as a natural sensitizer*](#)
22. *Synthesis of Zincoxide Nanorods and Its Application to Humidity Sensor*, Journal of Institute of Science and Technology, 20(1), 36-39 (2015)
23. *Vibrational frequency analysis of CH₃Cl molecule; ab initio study*, The Himalayan Physics, 4, 142-145 (2013)
24. *Significance of neutrino-neutrino interaction in neutrino oscillation in core-collapse supernova*, BIBECHANA, 12, 89-95 (2015)
25. *Theoretical study on Structural and Electronics Properties of Boron and Boron Nitride Nanodics: A Density Functional Approach*, International Journal of Computer & Mathematical Sciences, 4, 103-104 (2015)
26. [*Two-stream instability using Particle-in-cell simulation*](#), IEEE International Conference on [Plasma Science \(2009\)](#).

Free-free Scattering Theory of the Elastic Scattering of an Electron, International Journal of Physics, 3 (1), pp 32-39 (2015)