

## LIST OF PUBLICATIONS

**Within the scope of this thesis, the following articles have been published in peer-reviewed journals:**

- [1] Ghotra, H.S.; Kant, N. (2015), “Electron acceleration to GeV energy by a chirped laser pulse in vacuum in the presence of azimuthal magnetic field”, *App. Phys. B* **120**(1), 141-147.
- [2] Ghotra, H.S.; Kant, N. (2015), “Electron acceleration by a chirped laser pulse in vacuum under influence of magnetic field”, *Opt. Rev.* **22**(4), 539-543.
- [3] Ghotra, H.S.; Kant, N. (2015), “Sensitiveness of axial magnetic field on electron acceleration by a radially polarized laser pulse in vacuum”, *Opt. Commun.* **356**, 118-122.

**The following articles are under review with journals:**

- [1] Ghotra, H.S.; Kant, N., “Polarization effect of a Gaussian Laser Pulse on magnetic field influenced electron acceleration in Vacuum”, *Opt. Commun.*
- [2] Ghotra, H.S.; Kant, N., “Effect of periodic frequency chirp on electron acceleration by a radially polarized laser pulse in vacuum”, *App. Phys. B*.
- [3] Ghotra, H.S.; Kant, N., “Electron injection for enhanced energy gain by a radially polarized laser pulse in vacuum in the presence of magnetic wiggler”, *Phys. Plasma*.
- [4] Ghotra, H.S.; Kant, N., “Electron acceleration in magnetized plasma: Effect of laser beam width parameter”, *Phys. Lett. A*.
- [5] Ghotra, H.S.; Kant, N., “Wiggler magnetic field assisted electron acceleration during laser-cluster interaction”, *Eur. Phys. J. D*.

**Poster Presented:**

- [1] Ghotra, H.S., “Magnetic field influenced electron acceleration by a chirped laser pulse in vacuum”, 56<sup>th</sup> Course: Matter in Super-Intense Laser fields, at Erice, Italy, 12-22 July 2015.