

## APPENDIX / LIST OF PUBLICATIONS

1. **Manzoor Ahmad Wani** and Niti Kant, “Self-focusing of Hermite-cosh-Gaussian (HchG) laser beams in plasma under density transition”, *Advances in Optics*, Vol. 2014, Article ID942750
2. Niti Kant and **Manzoor Ahmad Wani**, “Density transition based self-focusing of cosh-Gaussian laser beam in plasma with linear absorption”, *Commun. Theor. Phys.* **64** (2015), 103-107
3. **Manzoor Ahmad Wani** and Niti Kant, “Investigation of relativistic self-focusing of Hermite-cosine-Gaussian (HcosG) laser beam in collisionless plasma”, *Optik*, **127** (2016), 4705-4709
4. **Manzoor Ahmad Wani** and Niti Kant, “Nonlinear propagation of Gaussian laser beam in an inhomogeneous plasma under plasma density ramp”, *Optik*, **127** (2016), 6710-6714
5. **Manzoor Ahmad Wani** and Niti Kant, “Self-focusing / Defocusing of chirped Gaussian laser beam in collisional plasma with linear absorption”, *Commun. Theor. Phys.* **66** (2016), 349-354
6. **Manzoor Ahmad Wani** and Niti Kant, “Self-focusing of a laser beam in the rippled density magnetoplasma”, *Optik*, **128** (2016), 1-7
7. Niti Kant, **Manzoor Ahmad Wani** and Asheel Kumar, “Self-focusing of Hermite-Gaussian laser beams in plasma under plasma density ramp”, *Optics Commun.* **285**, (2012), 4483-4487
8. Vikas Nanda, Niti Kant and **Manzoor Ahmad Wani**, “Sensitiveness of decentered parameter for relativistic self-focusing of Hermite-Cosh-Gaussian laser beam in plasma”, *IEEE Transactions on Plasma Science*, **41**, (2013), 2251-2256
9. Vikas Nanda, Niti Kant and **Manzoor Ahmad Wani**, “Self-focusing of Hermite-cosh Gaussian laser beam in a magnetoplasma with a ramp density profile”, *Phys. Plasmas*, **20**, (2013), 113109-7

## CONFERENCE PUBLICATIONS

1. **Manzoor Ahmad Wani** and Niti Kant, “Investigation of relativistic self-focusing of cosh–Gaussian laser beam in plasma using density transition”, ISBN: 978-93-83083-83—1, 82-86, High power coherent radiation generation & its interaction with matter, February 12-14, 2016, SATI, Vidisha (M. P) India.
2. Niti Kant and **Manzoor Ahmad Wani**, “Self-focusing of Hermite-cosine-Gaussian (HcosG) laser beams in plasma”, 11<sup>th</sup> Kudowa Summer School “Towards Fusion Energy” Kudowa Zdroj, Poland, June 11-15, 2012, p-169 (OP-27).

## CONFERENCES ATTENDED

- 1 High power coherent radiation generation & its interaction with matter, February 12-14, 2016, SATI, Vidisha (M. P) India.
- 2 Exploring basic and applied sciences for next generation frontiers (EBAS), November 14-15, 2014, LPU, Phagwara, Punjab India.
- 3 Bhartiya Vigyan Sammelan and Expo (Science for Global Development), October, 11-14, 2012, LPU, Phagwara, Punjab India.
- 4 Science, Technology & Regional Development: Opportunities & Challenges, September, 17-19, 2012, University of Kashmir, Srinagar India.