Recent Publications:

1.Das A;Hazarika C;Hazarika S.(2022).Spatial evolution leading to multiple filament formationof higher order super Gaussian beam in bulk medium at input power $P>>P_{cr,}$Optik.Elsevier.251(12) .

2.Hazarika. C; Das. A; Hazarika. S.(2019).Multiple filamentation and control properties of self-guided elliptical Gaussian laser beam,Journal of physics.Springer.48(4).

3.Hazarika. C; Das. A; Hazarika. S.(2019).Investigation of paraxial and nonparaxial self-focusing of Gaussian beam in chalcogenide glass medium using NLSE,Journal of physics conference series.IOP Science.1330(1):012020.

4. Hazarika. S; Hazarika. C; Das. A. (2017). Multiple filamentation and control properties of self-guided super Gaussian laser beam, Optik. Elsevier. **141**: 124-129.

5. Hazarika. C; Das. A; Hazarika. S. (2015). A study of beam parameters using NLSE in chalcogenide glass through variational method with a gaussian trial function, *American journal of optics and photonics.Science PG* **. 3(4)**: 43-47.

Book chapter/Conference proceeding Publications

1.Hazarika S;Das A;Hazarika C.(2021).Multple filamentaion at different orders of a super Gaussian beam,Proc.OPAL-4,IFSA Publishing,Corfu,Greece,ISBN:978-84-09-34187-0.

2. Hazarika. C; Das. A; Hazarika. S. (2016). Multiple filamentation of super gaussian beam in chalcogenide glass and role of noise, Proc. DAE-BRNS NLS-25, KIIT, Bhubeneshwar.ISBN: 978-81-903321-7-0.

3.Hazarika C; Das A ; Hazarika S.(2017).Multiple filamentation due to variation in beam ellipticity of an elliptical Gaussian beam in fluoride glass medium, Recent advances in physics research and its relevance, Excel India Publishers,ISBN:978-93-86256-85-0