List of Publications

(1) Experimental demonstration of spectral modification in a Mach-Zehnder interferometer.

(2) Using interference in the frequency domain for precise determination of thickness and refractive indices of normal dispersive materials.

(3) Measurement of optical constants of thin polymer films using spectrally resolved white light interferometry.
- Pramana, 47, 163,(1996).

(4) A compact interferometric system for simultaneous measurement of refractive index and thickness.
- submitted for publication.

(5) Determination of the instrument function of a grating spectrometer using white light interferometry.
- submitted for publication.

(6) Measurement of the degree of spectral coherence using a Michelson interferometer and Young’s double slit experiment.
- to be communicated.

(7) Absorption and emission spectral studies of Sm\(^3^+\) and Dy\(^3^+\) ions in PbO-PbF\(_2\) glasses.
- submitted for publication.

Conference proceedings:

(1) Picosecond and sub-picosecond relaxation studies in liquids with an incoherent nanosecond source.

(2) Stimulated Raman scattering in gases and fabrication of laser Raman shifter.
(3) Interference in frequency domain to determine the refractive index of materials.

(4) Measurement of n and t of thin films using spectral interference technique.

(5) Spectrometer slit width effects on resolution of the spectra.

(6) Spectral interferometry: A study of the degree of coherence in the space-frequency domain and the applications.