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June 8-9, 2022: 1st International Conference on Wettability Science and Associated Technologies

June 8-10, 2022: 13th International Workshop on Subsecond Thermophysics (IWSSTP13)

June 19-23, 2022: 15th Biennial Congress and Exhibition of the International Stereotactic Radiosurgery Society

September 26-30, 2022: 13th Asian Thermophysical Properties Conference (ATPC2022)

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Scattering of Laser Light in Dielectrics and Plasmas: A Review

Naveen Gupta, Suman Choudhry, Sanjeev Kumar, S.B. Bhardwaj, Sandeep Kumar, Gyanesh, Siddhanth Shishodia and Kishore B

A review on some nonlinear phenomena associated with light matter interactions has been presented. Emphasis is put on explaining the basic physics of the phenomenon while minimizing the mathematics. Particularly the phenomena of Rayleigh scattering, stimulated Raman and Brillouin scattering have been discussed in detail. As a special case scattering of intense laser beams with fourth state of matter i.e., plasma also has been discussed.

Keywords: Scattering of Light, Raman Scattering, Rayleigh Scattering, Brillouin Scattering

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Forthcoming Papers

Click here for a list of papers that have been peer-reviewed and accepted for publication in NLOQO. The final version has been assigned to an issue and the final proof has been approved by its author.

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