

Sunil Daga

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Objective:

To develop myself and achieve heights and accomplish goals which will demonstrate my inherent strengths, experience & professional skills in the field of academics & research.

Experience Summary:

1. BHABHA ATOMIC RESEARCH CENTRE, MUMBAI (INDIA)

Designation : SCIENTIST
Duration : AUGUST 2012 – NOV 2015.

2. FACULTY OF PHYSICS, KELVIN CLASSES

NOV-2015 TILL DATE
TOTAL TEACHING EXPERIENCE (5 YEARS)

Roles & Responsibilities:

- Development of lasers in infrared region for well-defined applications.
- Design and Development of Pulsar circuits for carbon dioxide lasers.
- Designing of magnetic pulse compression circuits for excitation of high pressure CO₂ lasers.
- Development of codes using MATLAB for simulation of CRDS cavities in optical resonator.
- Absorption spectroscopy experiments using IR lasers to study molecular behaviours.

Educational Qualification:

Degree /Date	Grade	Institute	University
MTech (Opto-electronics & Optical Communication)-2012	9.7 CGPA (Batch Topper)	IIT DELHI	INDIAN INSTITUTE OF TECHNOLOGY DELHI
B.E. (Electronics & Communication)-2009	First class (honours)	Jodhpur Engineering College & Research Centre	Rajasthan University

PUBLICATIONS:

Journals:

1. *Second Harmonic Conversion of the 10 μm Emission of Pulsed and CW CO₂ Lasers in ZnGeP₂*; Laser Physics.24 (2014) 105403 (5pp)
2. *Low-Jitter Synchronous Operation of Two Spark Gap Driven Laser Pulsers*; Optics and Laser Technology 65(2015),76-78

Conference:

1. *Temporal Stretching of the emission of a Pulsed Laser by externally confining it in a high q cavity*; National Laser Symposium-21, BARC, Mumbai, Feb-2014
2. *Characterization of SF₆-Ar Gas Jet by a Line Tunable CW-CO₂ laser*; National Laser Symposium-22 (2014), Manipal University, Manipal, Karnataka
3. *Low-Jitter Synchronous Operation of Two Spark Gap Driven Laser Pulsers*; National Laser Symposium-22 (2014), Manipal University, Manipal, Karnataka
4. *On the Second Harmonic Generation of the emission of pulsed and CW CO₂ laser in ZnGeP₂*, National Laser Symposium-22, Manipal University, Jan-2014.

Personal Details:

Name : Sunil Daga

Father's Name : Kanak Mal Daga

Mother's Name : Antar Daga

Address : Flat no. 2, 8 shopping centre, Basni - 2 Jodhpur, Raj (342005) India

Hobbies : Singing, Dancing & watching movies

Date of Birth : February 28, 1987.

Languages : English, Hindi.