Name	**DR. POONAM SILOTIA**
Designation	**PROFESSOR**
Department	**DEPARTMENT OF PHYSICS & ASTROPHYSICS**
Address (Campus)	**DEPARTMENT OF PHYSICS & ASTROPHYSICS UNIVERSITY OF DELHI DELHI- 110 007**
(Residence)	**D-13, MAURICE NAGAR, UNIVERSITY OF DELHI, DELHI- 110 007**
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Education	Ph.D.		
Subject	Institution	Year	Details
CONDENSED MATTER PHYSICS (THEORETICAL)	**UNIVERSITY OF DELHI**	**1992**	Thesis topic: ATOMIC AUTO-CORRELATION FUNCTIONS IN HIGHLY ANISOTROPIC CRYSTALS AND SIMPLE PROTEINS

Career Profile

Organisation / Institution	Designation	Duration	Role
C.R.R.I.T Kanjhawala	**Lecturer**	**1.08.85-1.07.90**	**Taught Diploma classes of Civil Engg. and Electronics Engg.**
Deen Dayal Upadhyaya College	**Lecturer**	**16.10.92-1.11.92 8.01.93-30.04.93**	**Research and Teaching (B.Sc. classes)**
Department of Physics & Astrophysics, University of Delhi	**Research Associate**	**1.05.93-14.09.93**	**Research work**
Department of Physics & Astrophysics, University of Delhi	**Lecturer**	**16.09.93-1.11.97**	**Research and Teaching**
Department of Physics & Astrophysics, University of Delhi	**Lecturer Senior Scale**	**2.11.97-2.11.01**	**Research and Teaching**
Department of Physics & Astrophysics, University of Delhi	**Reader /Associate Professor**	**3.11.01-31.12.10**	**Research and Teaching**
Department of Physics & Astrophysics, University of Delhi	**Professor**	**01.01.11-till date**	**Research and Teaching**

Research Interests / Specialization

CONDENSED MATTER PHYSICS (THEORETICAL)

Atomic auto-correlation functions, Bose-Einstein Condensation, Fullerenes, Collective dynamics of fluids, Optical transitions in semiconductor hetero-structures, Manipulation of molecules in inhomogeneous fields.

Teaching Experience (Subjects/Courses Taught)

Twenty five years of post-graduate teaching of both 'core' and 'special' papers.
Practical classes of M.Sc. Previous (Solid State Physics Lab.)

Honors & Awards

1. Awarded 'Research Associateship' of UGC 1993
2. Awarded 'Research Associateship' of Department of Physics & Astrophysics, University of Delhi, Delhi.

Publications

Please see the attached list of publications

Member of:

1. **Indian Association of Physics Teachers (IAPT)**
2. **Indian Women's Science Association (IWSA)**

Other Details

1. Guided and supervised students for the award of Ph.D. degree:
   Awarded: 06
2. Was associated with the election of office bearers of Departmental Physical Society.
3. Took Educational tours outside Delhi twice and once to NSC, Delhi
4. Was involved in the training program of Laboratory staff.
5. Warden of Rajiv Gandhi Hostel for Girls, Dhaka Hostel Complex from 30th April 2012- 31st Jan. 2018.
6. Provost of Rajiv Gandhi Hostel for Girls, Dhaka Hostel Complex from 1st Feb. 2018- till date.

LIST OF PUBLICATIONS OF DR. POONAM SILOTIA
LAST FIVE YEARS

1. Asymmetric effects on the optical properties of double-quantum well systems, Optical Engineering, 53, 027105 (2014). **Poonam Silotia**, Kriti Batra and Vinod Prasad.

2. Multiple quantum well in static magnetic and intense laser pulses, Physics Letters A, 378, 3561 (2014). **Poonam Silotia**, Hira Joshi and Vinod Prasad.

3. Two electron quantum ring in short pulses, Chinese Physics B, 24, 020303 (2015). **Poonam Silotia**, Rakesh Kumar Meena and Vinod Prasad.

4. Acoustic phonon spectrum of unaligned multiwalled carbon nanotubes and zero phonon Rayleigh Mossbauer scattering, Indian J. Phys., 89, 417 (2015) **Poonam Silotia**, S. Dabas, A. Saxena, S.P.Tewari.

5. Engineering optical properties of double quantum well system, accepted for publication in IJPAP (2016). **Poonam Silotia**, R. Giri and Vinod Prasad.

6. Excitation of exciton states on a curved surface, Physics Letters A 380, 2116 (2016). **Poonam Silotia**, Vinod Prasad.

7. Adsorbed molecules in external fields: Effect of confining potential, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 169, 238 (2016). Ashish Tyagi, **Poonam Silotia**, Anjali Maan, Vinod Prasad.

8. Spectra of confined positronium, Physics of Plasma, 24, 122118 (2017). D. Munjal, **Poonam Silotia** and Vinod Prasad.

9. Erratum: "Spectra of confined positronium" [Phys. Plasmas, 24, 122118 (2017)], , Physics of Plasma, 25, 079901 (2018). D. Munjal, **Poonam Silotia** and Vinod Prasad.

10. Second harmonic generation in a disk shaped quantum dot in the presence of spin-orbit interaction, Physics Letters A, 382, 2061 (2018). Vijit V. Nautiyal and **Poonam Silotia.**

11. Spectra of distorted quantum ring in external fields, Indian Journal of Pure and Applied Physics, 56, 941 (2018). **Poonam Silotia**, Rajesh Giri and Vinod Prasad.

PARTICIPATION IN CONFERENCES/ SYMPOSIA/ WORKSHOPS

(Both National and International)

1. "Absorption spectra of two-electron quantum ring", *National Conference on Nanotechnology and Renewable energy (NCNRE-2014),* April 28-29 (2014), Poster presentation, Jamia Millia Islamia Central University, New Delhi.
   Poonam Silotia, Rakesh Kumar Meena and Vinod Prasad.

2. "Quantum heterostructures in external fields, In National Conference on *"Recent Advances in Materials and Field Theory"*, Bhagwan Parshuram Institute of Technology, Delhi, GGSIP University, Delhi, December 28-29, 2015 **(Invited talk).**

3. Dynamics of weakly bound atoms in the presence of two color fields and magnetic field. Kriti Batra, Anjali Maan, **Poonam Silotia** and Vinod Prasad, National Conference on *"Recent Advances in Materials and Field Theory",* Bhagwan Parshuram Institute of Technology, Delhi, GGSIP University, Delhi, December 28-29, 2015.

4. "Excitonic transitions on a curved surface in external fields, **Poonam Silotia**, R. K. Meena and V. Prasad, National Conference *on "Recent Advances in Materials and Field Theory",* Bhagwan Parshuram Institute of Technology, Delhi, GGSIP University, Delhi, December 28-29, 2015.

5. Excitonic transitions in a spherical quantum dot modified by Kratzer potential in a magnetic field, Poster presentation, Varsha, P. Silotia, V. Prasad, Poster presentation at *"International Conference on Physics, Society and Technology (ICPST-2019)"* organised by Deshbandhu College and Department of Physics & Astrophysics, Conference Hall, Delhi University from 17-19 January 2019.

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