Name : **Sujanah. P**

Designation : **Lecturer**

Department : **Physics**

Date of Joining : **22-06-2011**

E-Mail : **sujanahp01@gmail.com**

Degree	Subject	College/university place	Year of completion
Ph.D	Physics (Quantum Physics)	Madurai Kamaraj University	July 2016 (Submitted)
M.Phil	Physics	Annamalai University	Sep 2009
B. Ed	Physics	Christ College of Education, Madras University	April 2006
M. Sc.	Physics	The American College, Madurai	June 1999

Specialization in Teaching: Statistical Physics, Quantum Physics, Electricity and magnetism, Atomic &Nuclear Physics

Specialization in Research : Low Dimensional Semiconductors (Quantum Physics)

Other Work Experience:

Designation	Institution/Company	Year From Month/Year to Month/Year
P.G Assistant in Physics	Noyes Mat. Hr. Sec. School, Madurai,	Jan 2006 to Oct 2006
P.G Assistant in Physics	S.P.V. Mat. Hr. Sec. School, Madurai	Oct 2006 to April 2008

P.G Assistant in Physics	St. Joseph Mat. Hr. Sec. School, Madurai	Jun 2008 to April 2009
P.G Assistant in Physics	Nehru VidyaSalai, Madurai	Jun 2009 to April 2011

Administrative/Academic Position (Held/Currently Holding)

NSS Program Officer **:**From Aug 2014 to Mar 2016

- Attended orientation programme at Avinashilingam University, Coimbatore from 23.09.2014 to 29.09.2014
- Conducted NSS camp for the year**-**2014 in the adopted village From 01.12.2014 to 07.12.2014
- Participated and conducted several Blood donation camp, Aids awarness program, Dengue awareness program, Literacy program, Old age home and other special programs with the convenor and other program officers.

No. Of Publications : 7

Articles Presented in International Journals:

1. **P.Sujanah,** A.John Peter, Chang Woo Lee, Optical studies of an exciton and a biexciton in a CdTe/ZnTe quantum dot nanostructure, **Optics Communications** 336(2015)120-126.
2. **P.Sujanah,** A.John Peter, Chang Woo Lee, Electronic and optical properties of exciton, trions and biexcton in II-VI parabolic quantum dots, **Physica E** 72 (2015) 63-69 .
3. **P.Sujanah,** A.John Peter, Electronic properties of exciton and biexciton in a CdTe/ZnTenano- heterostructure,**AIP Conf. Proc.**1665, 120002 (2015).
4. **P.Sujanah,** A.John Peter, Chang Woo Lee, Magnetic field induced Trions in a Telluride based II – VI material, **Int J. Mod. Phy. B** 30/11 (2016) 1650069.
5. **P.Sujanah,** A.John Peter, Chang Woo Lee, Laser induced magneto-Raman optical gain of an exciton and a biexciton in a CdTe/ZnTe quantum dot, **Chemical Physics** 475 (2016) 112-118.
6. **P.Sujanah,** A.John Peter, Chang Woo Lee, Pressure induced threshold optical pump intensity in CdTe/ZnTe quantum dot, **Phase Transition,** dx.doi.org/10.1080/01411594.2016.1195909.

Articles Presented in National Journals:

1. **P.Sujanah,** A.JohnPeter **,**Effects of geometrical confinement on binding energies of an exciton and a biexciton in a CdTe/ZnTe quantum dot J. Res. Sci. 2 (2014),ISSN: 2278-9073.

Conference/ Seminars Presented:

1. Optical studies of an exciton and a biexciton in a Tellurium based Quantum dot nanostructure, National Seminar on Exploration on Properties of Materials, P.G Research Dept of Physics, **Govt Arts College, Melur, Madurai,** on September 5, 2014.
2. Effects of Geometrical confinement on binding energies of Exciton and a biexciton in a CdTe/ZnTequantumdot, National Conference on Recent Trends in Quantum Chemistry (Quantum 2014),**Nesamony MemorialChristian College, Marthandam,** duringDecember 12-13, 2014.
3. Electronic properties of exciton and biexciton in a CdTe/ZnTenano-heterostructure, International Conference, 59th DAE Solid State Physics Symposium**, VIT University, Vellore,** duringDecember 16-20, 2014.
4. Radiative lifetime of an exciton and a biexciton in Tellurium-based II-VI semiconductor Quantum Dot, 4th International Conferenceon Current Development in Atomic, Molecular, and Optical Physics, **Delhi University, NewDelhi,** duringMarch 11-14,2015.
5. Laser field induced interband optical transition energies of trions in a CdTe/ZnTe core/shell quantum dot, 8th International Conference on Materials for Advanced Technologies, **Material Research Society, Suntec, Singapore,** during June 28-July 3, 2015.
6. Raman optical gain of exciton and charged excitons in a group II-VI heterostructure, International Conference on Nanomaterials for Energy, Environment, Catalysis and Sensors (ICNEECS-15),**Madurai Kamaraj University, Madurai,** during 11-12 December 2015.

Lectures/Talks Given:

1. Studies on low dimensional semiconductors, held at **V.V.V College for Women, Virudhunagar,** on August 13, 2015.
2. Electronic and Optical properties of II-VI semiconductors, held at **Yadava College, Madurai,** on March 30, 2016
3. Investigations on nonlinear optical properties in group II-VI semiconductors, held at **Devangaarts College, Aruppukkottai,** on July 4,2016.

Other Activities:

- **SCM** - Committee member of Students Christian Movement
- **Green Club**- Committee member of Green club
- **College Choir** – Member of college choir