

FACULTY PROFILE

Name : **Dr. A. Sivakami**
 Designation : Assistant Professor
 Email ID : sivakami.sh@srit.org
 Area of Specialization : Nanotechnology
 Total Experience : 2 years Academic : 2 years



Educational Qualification:

Degree	Branch / Specialization	College	University
Ph.D	Physics	Thiagarajar College of Engineering, Madurai	Anna University
M.Phil	Physics	Madurai Kamaraj University	Madurai Kamaraj University
M.Sc	Physics	PSG College of Arts & Science	Bharathiar University
B.Sc	Physics	Gobi Arts & Science College	Bharathiar University

S.No	Institution/Industry	Design.	Experience		Total Years & Months
			From	To	
1	Sri Ramakrishna Institute of Technology	Assistant Professor	14.07.2014	Till date	2 Years
2	Vivekanandha Institute of Engineering and Technology for Women	Lecturer	16.08.2007	28.03.2008	7 Months
Total (as on Feb 2016)					2 Years 7 Months

Publications :

Journals : 06

1. **A.Sivakami**, V.Gayahtri, Effect of thickness on Nanocrystalline TiO₂ films on the performance of Dye-sensitized Solar cells, **Journal of advanced Physics**, **3 (2014) 119-124.**
2. **A.Sivakami**, V.Gayathri, *Hydrostatic pressure and temperature dependence of dielectric constant mismatch effect on the impurity binding energy in a spherical quantum dot*, **Superlattices and Microstructures**, 58 (2013) 218-227. (11 citations)
3. **A.Sivakami**, M.Mahendran, *Hydrostatic Pressure and temperature dependence of correlation energy in a spherical quantum dot*, **Superlattices and Microstructures**, 47 (2010) 530-537. (15 citations)
4. **A.Sivakami**, M.Mahendran, *Hydrostatic pressure and conduction band non-parabolicity effects on the impurity binding energy in a spherical quantum dot*, **Physica B**, 405 (2010) 1403-1407.(15 citations)
5. **A.Sivakami**, A.Rejojeice, K.Navaneethakrishnan, *Effects of Hydrostatic Pressure and Polaronic Effects on the Correlation energies in a Spherical Quantum dot*, **Int.J.Mod.Phys.B**, 24 (2010) 5561-5569. (3 citations)
6. **A.Sivakami**, K.Navaneethakrishnan, *Correlation Energy in a Spherical Quantum dot*, **Physica E**, 40 (2008) 649-653. (24 citations)

Seminar, Conference, Workshop Attended:

1. Attended the Seminar on Crystal growth characterization and applications (SOCCA) held on 30-31, DEC 2005 at PSG College of Arts & Science, Coimbatore, India.
2. Attended and Participated in the student seminar on Curriculum Restructurization held on 17th FEB 2006 at PSG College of Arts and Science, Coimbatore, India.
3. Attended and Participated in National Workshop on **Recent Trend in Computational Research on Nano Structures** held on April 8-12, 2008 at Thiagarajar College of Engineering, Madurai, India.
4. Attended and Participated the **International Conference on Smart Structures and Systems (ISSS-2008)** held on July 24-26, 2008 at Indian Institute of Science, Bangalore, India.

5. Attended and Presented the Paper entitled "*Effect of Magnetic field on the Impurity Binding Energy in a Spherical Quantum dot*" in an **International Conference on Magnetic Materials and their Applications in 21st Century** (ICMMA-2008) held on October 21-23, 2008 at National Physical laboratory (NPL), New Delhi, India.
6. Attended and presented the paper entitled "*Pressure Dependent Ionization energies in a Spherical Quantum dot*" in an International Symposium on **International Symposium for Research Scholars on Metallurgy, Materials Science & Engineering** (ISRS-2008) held on December 10-12, 2008 at Indian Institute of Technology Madras (IITM), Chennai, India.
7. Attended and presented the paper entitled "*Electric field effects on the correlation energies in a spherical Quantum dot*" in an **International Conference on Active/Smart materials (ICASM-2009)** held on January 7-9, 2009 at Thiagarajar College of Engineering, Madurai, India.
8. Attended and presented the paper entitled "Effect of Hydrostatic Pressure on the Correlation energy in a Spherical Quantum dot" in **National Conference on Recent Trends in Advanced Energy Materials (NCRTEM-2010)** held on March 10-11, 2010 at Alagappa University, Karaikudi, India.
9. Attended and presented the paper entitled "*Influence of Temperature on Auger Recombination in Three –Junction Quantum dot Solar cells*" in an **International Conference and Workshop on New Materials and Devices for Photovoltaic Applications (ICWNMDP-2011)** held on February 10-12, 2011 at Madurai Kamaraj University, Madurai-15, India.
10. Attended and presented the paper entitled "*Effect of Dielectric mismatch and magnetic field on the impurity binding energy in a Cylindrical quantum dot*" in an **International Conference on Advanced Materials (ICAM-2011)** held on December 12-16, 2011 at PSG college of Technology, Coimbatore, India.
11. Attended and presented the paper entitled "*Synthesis of Hexagonal Structured Wurzite $CuInS_2$ Quantum dots for Solar cell Applications*" in an **International Conference on Thin films and Applications (ICAM-2012)** held on March 15-17, 2012 at SASTRA University, Thanjavur, India.

Membership in Professional Bodies:

Magnetic Society of India

Awards and Recognitions:

- a) **Senior Research Fellowship (SRF)** in **Council of Scientific and Industrial Research (CSIR)**, New Delhi award (April-2010 to March-2014)
- b) **Junior Research Fellow (JRF)**-Department of Science and Technology (DST), New Delhi (Duration: 2008-2009).
- c) Elected as a **Summer Training Student** (from May-July 2005) by Indian Academy of Sciences (IAS), Bangalore. I have done the project under the guidance of Prof.K.N.Pathak, Department of Physics, Panjab University, Chandigarh. Project entitled "***Micro and Nano fluidics***".
- d) Topper in 12th standard.
- e) Proficiency in III year B. Sc., Physics