

## **FACULTY PROFILE**

Name : Dr.A.Sivakami  
Designation : Assistant Professor  
Email ID : sivakami.sh@srit.org  
Area of Specialization : LDSS, Nanotechnology, Solar cells  
Total Experience : Academic : 03 Years  
Industry : NIL



### **Educational Qualification:**

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

### **Experience Details:**

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	16.07.2007	28.03.2008	7 months
Total (as on June 2016)					2 Years 7 Months

Publications :

Journals : 6

1. **A.Sivakami**, V.Gayahtri, Effect of thickness on Nanocrystalline TiO<sub>2</sub> 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. (14 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. (16 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.(16 citations)
5. **A.Sivakami**, A.Rejoice, 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. (7 citations)
6. **A.Sivakami**, K.Navaneethakrishnan, *Correlation Energy in a Spherical Quantum dot*, **Physica E**, **40** (2008) 649-653. (28 citations)

#### International Conferences:

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 17<sup>th</sup> 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 21<sup>st</sup> 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 “*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.
9. 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.
10. Attended and presented the paper entitled “*Synthesis of Hexagonal Structured Wurzite CuInS<sub>2</sub> 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.

#### **National Conferences:**

1. 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.

**Seminar, Conference, Workshop Attended:**

1. Attended two week ISTE-STTP programme on “Environmental Studies” during June 2-12, 2015 conducted by IIT Bombay.
2. Attended two week ISTE-STTP programme on “Engineering Physics” during December 8-18, 2015 conducted by IIT Bombay.

**Membership in Professional Bodies:**

1. Life Member in Magnetic Society of India (LM467)

**Awards and Recognitions:**

1. Received SRF from CSIR-HRDG for the period from April 2010- March 2014
2. Received JRF from DST for the period from April 2008- March 2009
3. Received the Summer Training Student Fellowship from Indian Academy of Sciences, Bangalore for the period from May-July 2005.