

## Resume

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**Name** : Dr.N.R.Senthilkumar

**Sex** : Male

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Dindigul-3



**Marital status** : Married

### EDUCATIONAL QUALIFICATION

- **B.Sc** Physics completed in **G.T.N Arts and Science College,Dgl.**(2000-2003)
- **M.Sc** Physics completed in **Madura College, Madurai**(2003-2005)
- **M.Phil** Physics completed in **Alagappa University,Karaikudi** (2008-2009)
- **Ph.Din** Physics completed in **Madurai Kamaraj University, Madurai** (2015)

### TEACHING EXPERIENCE

School/ College	Designation/Dept	Duration
Sourashtra College , Madurai	Assistant professor/Physics	20.01.2016 to till date
SBM Engineering College, and Technology, Dindigul	Assistant professor/Physics	04.07.2013 to 24.01.2015
R.V.S.ETGI, Dindigul	Assistant professor/Physics	02.08.2010 to 03.07.2013
Amman Arts and Science College, Dindigul	Lecturer/ Physics	22.07.2009 to 30.07.2010
G.T.N Arts and Science College, Dindigul	Lecturer/Physics	01.06.2007 to 30.05.2009

#### PAPER PUBLISHED IN INTERNATIONAL JOURNAL

- The paper entitled “Optical properties of exciton in a strained  $\text{Ga}_x\text{In}_{1-x}\text{As}/\text{GaAs}$  quantum dot; Effect of geometrical confinement on exciton g-factor”, published by the **Journal of Chinese optics letter**, 11(8) (2013) 082501.
- The paper entitled “Nonlinear optical properties of magneto-exciton in a strained  $\text{Ga}_{0.2}\text{In}_{0.8}\text{As}/\text{GaAs}$  quantum dot”, published by the **journal of Chinese B22(10)(2103)107106**.
- The paper entitled “Stark effects on the nonlinear optical properties of exciton in a strained  $\text{Ga}_x\text{In}_{1-x}\text{As}/\text{GaAs}$  quantum dot”, **J. Elixir Cond. Matt. Phys. 71** (2014)24838.
- The paper entitled “Polaron dependent optical properties of exciton in a Strained  $\text{Ga}_x\text{In}_{1-x}\text{As}/\text{GaAs}$  quantum dot”,**J. Computational and Theoretical Nanoscience 12 (2015) 8**.
- The paper entitled “Pressure induced effective exciton g-factor in a strained  $\text{Ga}_{0.2}\text{In}_{0.8}\text{As}/\text{GaAs}$  quantum dot”,**J.Adv.Phys. 4 (2015) 191**.

#### PAPER PRESENTED IN CONFERENCE

- “Effective exciton g-factor and exciton energy levels in a quantum dot” presented in National seminar conducted by **Govt.Arts and Science College, Ooty**, during September 12-14, 2012
- “Effects of gallium alloy content and the geometrical confinement on effective g factor in a III-V semiconductor quantum dot” presented in solid state physics Symposium 2012, conducted by **IIT Mumbai**.
- “Landé factor in a GaInAs Quantum dot, presented in National conference on Recent Developments in Physics conducted by **Govt. Arts and Science College, Melur**, during January 30- 31, 2013
- “Investigations of Landé factor in a strained  $\text{Ga}_x\text{In}_{1-x}\text{As}/\text{GaAs}$  quantum dot” presented in solid state physics Symposium 2013, conducted by **Thapar University Patiala**.

- “Stark effects on the optical and electronic properties in a strained  $\text{Ga}_x\text{In}_{1-x}\text{As}/\text{GaAs}$  quantum dot” Conducted by **BDU Thirchy** during March 6-7, 2014

#### **SEMINAR PRESENTED**

- “Non linear optical properties of III and V group semiconductors” in **Palani Andavar College, Palani.**
- “Electronic and optical properties of narrow band gap semiconductors” in **Sakthi Arts and Science College, Ottanchatram.**
- “Excitonic properties and Optical properties of InGaAs material” in **SRN Memorial College, Sattur.**

<b>Year</b>	<b>Name of the Seminars/Workshop conference etc.,</b>	<b>Name of the sponsoring Agency</b>	<b>Place and Date</b>
2015-2016	Faculty Development programme “Refined Role of Teachers”	UGC Autonomy grant	Sourashtra college 05-03-2016
2017-2018	One day faculty development programme on “Management of self – A HOLISTIC APPROACH “	SCAAN and IQAC	Sourashtra college 29.08.2017
	International conference on Recent Trends in Applied Science and Technology		Anna University , Chennai 08.09.2017- 09.09.2017
	State level workshop- “Intellectual Property Rights”		NPR Arts and Science College 20.01.2018
	One day faculty development programme on “Innovation in Teaching”	UGC Autonomy grant	Sourashtra college 17.03.2018
	Orientation Programme	UGC Sponsored	UGC-HRDC Bharathidhasan

			University 08-11-2018 to 05-12.2018
2018-2019	64 <sup>th</sup> DAE solid state physics Symposium	BRNS	IIT Jodhpur, Rajasthan, 18-22 December 2019
2020-2021	Two weeks interdisciplinary Refresher course		Ramanujan college, University of Delhi 23.07.2021- 06.08.2021
2021-2022	Two weeks Refresher course in Physics		UGC-HRDC , University of Hyderabad 05-17 December 2022
2022-2023	One day faculty development programme on “Transformational Technology in Teaching”		Sourashtra College 15.07.2023

## PROFESSIONAL ACTIVITIES

- ❖ **ORGANISING SECRETARY** for the **ONE DAY NATIONAL SEMINAR ON “RECENT TRENDS IN PHYSICS (NSRT-2019)”** held on 13<sup>th</sup> February 2019 at Silver Jubilee Hall, Sourashtra College, Madurai-625 004, Tamil Nadu
- ❖ **ORGANISING SECRETARY** for the **ONE DAY INTERNATIONAL WEBINAR ON “RECENT TRENDS IN PHYSICS (IWRT-2020)”** held on 28<sup>th</sup> November 2020 conducted by Department of Physics, Sourashtra College, Madurai – 625004, Tamil Nadu.
- ❖ **ORGANISING SECRETARY** for the **NATIONAL LEVEL ONLINE E-QUIZ ON “APPLIED PHYSICS”** conducted by Department of Physics, Sourashtra College, Madurai – 625004, Tamil Nadu **from 3<sup>rd</sup> August 2020 to 5th August 2020.**
- ❖ **NSS Program Officer for the unit No .31 from 19.07.2022 to till date**

## **VALUE ADDED COURSE CONDUCTED:**

- ❖ **VALUE ADDED COURSE** (30 hours) conducted for third year B.Sc. Physics students entitled “**WIRING AND REPAIRING OF DOMESTIC APPLIANCES**” by the Department of Physics, Sourashtra College, Madurai – 625004, Tamil Nadu in the academic year 2021 - 2022.
- ❖ **VALUE ADDED COURSE** (30 hours) conducted for third year B.Sc. Physics students entitled “**WIRING AND REPAIRING OF DOMESTIC APPLIANCES**” by the Department of Physics, Sourashtra College, Madurai – 625004, Tamil Nadu in the academic year 2022 - 2023.

## **PROJECT GUIDED:**

**No. of. M.Phil Candidates: 2**

- Nonlinear optical properties in a strained GaInAs/GaAs Quantum dot with effect of Hydrostatic pressure (P.Sathiyavani , Reg No:B6815256, year 2017)
- Magnetic field dependent Nonlinear optical properties in a  $\text{Ga}_{0.2}\text{In}_{0.8}\text{As}/\text{GaAs}$  Quantum well (S.Hemalatha, Reg No: B6815253, year 2017)

## **INVITED TALK:**

- “**Kinematic theory**” talk delivered in Amman Arts and Science College, Dindigul on 20.07.2017
- “**Involvement of physics phenomena in our daily life**” talk delivered in subramanya college of arts and science, Palani on 28.08.2019
- “**Ozone layer depletion**” talk delivered in G.T.N. Arts College, Dindigul on 01.10.2021

## **ADDITIONAL QUALIFICATION**

- DCA
- Type writing

## **EXTRA CURRICULAR ACTIVITIES**

- Main singer in orchestra