

## CURRICULUM VITAE

Name : **Dr.G. NEDUNCHEZHIAN, M.Sc,M.Phil,Ph.D.,**  
Designation : **Assistant Professor**  
Department : **Physics**  
Subject Interest : **Material Science**  
Specialization : **Nano Bio-Ceramics & Nano Materials**



### DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

#### Lecturer in Physics

Institute : **Periyar Arts College,Cuddalore**  
Period : **2<sup>nd</sup> July2004 to 10<sup>th</sup>October 2008**  
Teaching Areas : **Atomic Physics and Properties of Matter**

#### Lecturer in Physics

Institute : **M.R. Government Arts College, Mannargudi**  
Period : **13<sup>th</sup>October 2008 to 2<sup>nd</sup> July 2009**  
Teaching Areas : **Atomic Physics and Optics and Spectroscopy**

#### Assistant Professor of Physics

Institute : **Thiru.Vi.Ka. Government Arts College, Tiruvarur**  
Period : **3July 2009 onwards**  
Teaching Areas : **Mathematical Physics, Quantum Mechanics,  
Solid State Physics and Atomic Physics**  
Research Areas : **Nano Bio-Ceramics and Nano Materials**

### ACADEMIC PROFILE

**Ph.D.,** : **Physics**  
University : **BharathidasanUniversity,Tiruchirappalli, India**  
Date and Place : **4.12.2018,**  
Research Supervisor : **Dr.D.BennyAnburaj,Ph.D.,**  
  
Title of Thesis : **Synthesis and Characterization of Nano Bio-Ceramic hydroxyapatite**

### **M.Phil.,**

University : Bharathidasan University, Tiruchirappalli  
Main Subject : Physics  
Year : January 2005  
Supervisor : Prof. Dr. K. Ganesan, M.Sc., Ph.D.,  
Title of Dissertation : Spectroscopic Analysis of AAmioduParpam -  
Siddha Medicine

### **M.Sc.,**

University : Bharathidasan University  
College : TBML College, Porayar  
Main Subject : Physics  
Year : 2002

### **B.Sc.,**

University : Bharathidasan University  
College : TBML College, Porayar  
Main Subject : Physics  
Year : 1999

## AWARDS AND DISTINCTION

- ✚ Dr. Radhakrishnan Best Teacher State Award - 2019, Bahujana Sahitya Academy (BSA), Hyderabad.

## PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

1. Effect of calcinations on the structure and morphological properties of Ag and In co-doped ZnO nanoparticles, V Porkalai, D Benny Anburaj, B Sathya, G Nedunchezian, R Meenambika J. Materials Science: Materials in Electronics 28 (3), 2521-2528, 2017, DOI 10.1007/s10854-016-5826-1. [sci-hub.tw/10.1007/s10854-016-5826-1](http://sci-hub.tw/10.1007/s10854-016-5826-1)

2. Fabrication of hydroxyapatite nano rod from land snail shell (Helix pomatia) assisted by microwave irradiation, G Nedunchezian, D Benny Anburaj, J Sembianruso, Indo Asian Journal of Multidisciplinary Research 1 (4), 345-354, 2015, ISSN: 2454-1370. <http://www.jpsscificpublications.com/>

3. Low Temperature Ferromagnetism and Optical Properties of Fe Doped ZnO Nanoparticles Synthesized by Sol-Gel Method, B Sathya, V Porkalai, D Anburaj, G Nedunchezian, *Mechanics, Materials Science & Engineering Journal* 9 (1), 2017, hal-01496405. <http://10.2412/mmse.64.30.685>
4. Microwave Assisted Study On Bio Material Nano Hydroxyapatite Crystal (Helix Pomatia) In Simulated Body Fluid, SJJ G. Nedunchezian, D. Benny Anburaj, B. Gokulakumar, *International J. Recent scientific Research* 6 (12), 7793-7797, 2015, ISSN: 0976-3031. <http://www.recentscientific.com>
5. Microwave Assisted Synthesis And Characterization Of Silver And Zinc Doped Hydroxyapatite Nanorods From Mussel Shell (Mollusk), G Nedunchezian, D Benny Anburaj, B Gokulakumar, S Johnson, *Romanian Journal Of Biophysics*, 26, 11-20, 2016, ISSN: 1843-424X. <https://www.rjb.ro/articles/437/art02%20II.pdf>
6. Microwave Synthesis of Au/Ag Doped Nano Hydroxyapatite from Dead Mussel Shell, SJJ G Nedunchezian, D Benny Anburaj, B Gokulakumar, *Int. J. Adv. Sci. Eng.* 3 (3), 353-356, 2017, ISSN 2349 5359. DOI:1029294/IJASE. [http://www.mahendrapublications.com/article\\_details.php?id=MP242436](http://www.mahendrapublications.com/article_details.php?id=MP242436)
7. Nucleation kinetics of various proportions of Urea-Thiourea mixed crystal in Water-Methanol M Mariappan, G Madhurambal, D Benny Anburaj, G Nedunchezian, *International Journal of Chemical and Pharmaceutical Sciences* 6 (4), 27-31, 2015, ISSN: 0976-9390. <http://www.ijcps.com/>
8. Raman scattering and photoluminescence properties of Ag doped ZnO nano particles synthesized by sol-gel method, B Sathya, DB Anburaj, V Porkalai, G Nedunchezian, *Journal of Materials Science: Materials in Electronics* 28 (8), 6022-6032, 2017, DOI 10.1007/s10854-016-6278-3. <https://www.readcube.com/articles/10.1007%2Fs10854-016-6278-3>
9. Structural and Morphological Properties of Ag and In Co-Doped ZnO Nanoparticles Synthesized by Sol-Gel Method, V Porkalai, B Sathya, DB Anburaj, G Nedunchezian, R Meenambika *Nano Hybrids and Composites* 17, 101-105, 2017, [http://www.mahendrapublications.com/article\\_details.php?id=MP023430](http://www.mahendrapublications.com/article_details.php?id=MP023430)
10. Structural and Optical Properties of Ag and In-Doped ZnO Nanoparticles Synthesized by Sol-Gel Method, RM B. sathya, V. Porkalai, D. Benny Anburaj, G. Nedunchezian, *Int. J. Adv. Sci. Eng.* 3 (4), 411-421, 2017, ISSN 2349 5359. DOI:1029294/IJASE. <http://mahendrapublications.com/Document/MP023430.pdf>
11. Study on the Synthesis, Structural, Optical and Electrical Properties of ZnO and Lanthanum Doped ZnO Nano Particles, by Sol-Gel Method, V Porkalai, DB Anburaj, B Sathya, G Nedunchezian, R Meenambika, *Mechanics, Materials Science & Engineering Journal* 9, 2017. [10.2412/mmse.77.37.393](http://10.2412/mmse.77.37.393). [hal-01499405](http://hal-01499405). <https://mmse.xyz/en/study-on-the-synthesis-structural-optical-and-electrical-properties-of-zno-and-lanthanum-doped-zno-nano-particles-by-sol-gel-method/>

12. Synthesis growth and Characterization of New NLO material :L-threonine Manganese chloride BG C.Vijayaraj, M.mariappan, G.Nedunchezian, D.Benny Anburaj, IndoAsian Journal of Multidisciplinary, 2 (2), 555-560,2016. ISSN: 2454-1370. <https://www.academia.edu/27553949/>
13. synthesis Growth and Characterization of a New NLO Material:L-Threonine Lithium Chloride BAD Vijayaraj.C., Mariappan.M,nedunchezian.G,IJCPS 6(4), 23-26,2015. ISSN: 0976-9390. <http://www.ijcps.com/files/vol6issue4/5.pdf>
14. Synthesis growth and Characterization of New NLO material:L-Threonine Lead Chloride SS B.Gokulakumar, C.Vijayaraj, M.Mariappan, G.Nedunchezian, D.Benny Anburaj, Indo Asian Journal of Multidisciplinary Research 2 (4), 668-672,2015,DOI: 10.21276.iajmr.2016.2.4.3. [https://www.academia.edu/28564646/SYNTHESIS\\_GROWTH\\_AND\\_CHARACTERIZATION\\_OF\\_A\\_NEW\\_NLO\\_MATERIAL\\_L-THREONINE\\_LEAD\\_CHLORIDE](https://www.academia.edu/28564646/SYNTHESIS_GROWTH_AND_CHARACTERIZATION_OF_A_NEW_NLO_MATERIAL_L-THREONINE_LEAD_CHLORIDE)
15. Fourier Transform Infrared Spectroscopy Studies On Talcum Powders, BAGokulakumar.B,Nedunchezian.G, Vijayaraj. C ,International Journal of Recent Scientific Research7(12),14505-14507,2016,ISSN:0976-3031. <https://www.recentscientific.com/sites/default/files/6622ijrsarticle.pdf>
16. Synthesis, Characterization of Ag/Zn doped Nano Hydroxyapatite in Simulated Body Fluid, G. Nedunchezian<sup>1</sup>. D. Benny Anburaj, S. Joshua Gnanamuthu, S. Johnson Jeyakumar , Int. J. Adv. Sci. Eng. 4 (3), 634-639,2018, ISSN 2349 5359. DOI:1029294/IJASE. [https://www.academia.edu/36254159/Synthesis\\_Characterization\\_of\\_Silver\\_and\\_Zinc\\_doped\\_Nano\\_Biomaterial\\_Hydroxyapatite\\_in\\_Simulated\\_Body\\_Fluid](https://www.academia.edu/36254159/Synthesis_Characterization_of_Silver_and_Zinc_doped_Nano_Biomaterial_Hydroxyapatite_in_Simulated_Body_Fluid)
17. Microwave Synthesis of Au/Ag Co - Doped Hydroxyapatite from Dead Mussel Shell and Bio Compatibility Test by Simulated Body Fluid, G. Nedunchezian, D.Benny Anburaj, B.Gokulakumar, S. Joshua Gnanamuthu, S. Johnson Jeyakumar, Vol. 9, Issue, 3(C), pp. 24863-24867, March, 2018 , DOI: 10.24327/IJRSR. <http://www.recentscientific.com/microwave-synthesis-auag-co-doped-hydroxyapatite-dead-mussel-shell-and-bio-compatibility-test-simula>
18. Combination of Silver and Magnesium doped ZnO Nanoparticles using Sol-Gel method, V.Porkalai, B.Sathya, D.BennyAnburaj, G.Nedunchezian, R. Meenambika, Int. J. Adv. Sci. Eng. Vol.4,No,3662-666(2018),ISSN23495359.DOI:1029294/IJASE. [https://www.academia.edu/36254278/Combination\\_of\\_Silver\\_and\\_Magnesium\\_doped\\_ZnO\\_Nanoparticles\\_using\\_Sol-Gel\\_method](https://www.academia.edu/36254278/Combination_of_Silver_and_Magnesium_doped_ZnO_Nanoparticles_using_Sol-Gel_method)
19. Photoluminescence Properties of lanthanum-Silver co-doped ZnO nanoparticles,V.Porkalai, B.Sathya, D.BennyAnburaj, G.Nedunchezian,S.Joshua Gnanamuthu, R.Meenambika, Modern Electronic Materials ,4(4),135-141,2018. <https://doi.org/10.3897/j.moem.4.435063>
20. Synthesis, Characterization of Silver Doped Nano Hydroxyapatite Using Land Crab Shell Assisted by Microwave Irradiation, G. Nedunchezian, C.Vijayaraj , D. Benny Anburaj, Journal of Information and Computational Science,10(1), 1211-1220,2020, <http://www.joics.org/gallery/ics-2227.pdf>. ISSN NO: 1548-7741

21. Antibacterial Activity, Structural, Optical And Morphological Properties Of Al Doped Zn Nanoparticles Synthesized By Sol-Gel Method, C.Vijayaraj, G.Nedunchezian, S.Sozhaveni ,International Journal of Scientific & Technology Research,9(2), 5565-5570,2020. <http://www.ijstr.org/paper-references.php?ref=IJSTR-0220-30507>, ISSN NO: 2277-8616
22. Microwave Synthesis Of Lanthanum Doped Nano Hydroxyapatite Prepared From Duck Egg Shell, G. Nedunchezian, C.Vijayaraj , D. Benny Anburaj, International Journal of Scientific & Technology Research,9(2), 5565-5570,2020.5673-5676,2020. <http://www.ijstr.org/paper-references.php?ref=IJSTR-0220-30893>, ISSN NO: 2277-8616
23. Effect of 0.2M Pb on the Structural, Optical, Mechanical studies of Pure L-Threonine Manganese Acetate Single Crystal, G. Nedunchezian and D. Benny Anburaj N. Imthiyas Ahamed,AEGAEUMJOURNAL,8(3),3,93-100,2020,[DOI:16.10089.AJ.2020.V8I3.285311.3001](https://doi.org/10.10089.AJ.2020.V8I3.285311.3001) <https://app.box.com/s/v75nc4oli0ancc3qkfr4g0od8pb3ef9v> ,
24. Effect of Zn Doped L-Threonine Manganese Acetate Single Crystal, G. Nedunchezian and D. Benny Anburaj N. Imthiyas Ahamed AEGAEUM JOURNAL,8(3),111-121,2020, [DOI:16.10089.AJ.2020.V8I3.285311.3003](https://doi.org/10.10089.AJ.2020.V8I3.285311.3003)
25. Investigation on synthesis, growth and multi character studies of LTMA single crystal, G. Nedunchezian<sup>3</sup> N. Imthiyas Ahamed<sup>1</sup> , D. Benny Anburaj<sup>2\*</sup> , Econophysics, Sociophysics ,and Multidisciplinary Sciences Journal ,9(1), 53-57, 2020. [http://esmsj.upit.ro/ESMSJ%20vol%209\(1\)%202020/PAPER8.pdf](http://esmsj.upit.ro/ESMSJ%20vol%209(1)%202020/PAPER8.pdf)
26. Comparative Structural, Optical and Mechanical Analysis of Pure and Cd<sup>2+</sup> doped L-Threonine Manganese Acetate, G. Nedunchezian<sup>1</sup> N. Imthiyas Ahamed<sup>1</sup> , D. Benny Anburaj<sup>2\*</sup>,j. Wutan Huatan Jisuan Jishu,16(9),294-308,2020. <http://www.wthtjsjs.cn/gallery/36-whjj-oct-5610.pdf>
27. Influence of Cd<sup>2+</sup> Ions on Pure L-Threonine Manganese Acetate Single Crystal, G. Nedunchezian N. Imthiyas Ahamed , D. Benny Anburaj, J.Solid State Technology,63(5), 4255-4266. <http://www.solidstatetechnology.us/index.php/JSST/issue/view/48>
28. Synthesis, Characterization of Silver Doped Nano Hydroxyapatite Using Land Crab Shell Assisted by Microwave Irradiation, G. Nedunchezian, C.Vijayaraj , D. Benny Anburaj, Journal of Information and Computational Science,10(1), 1211-1220,2020, <http://www.joics.org/gallery/ics-2227.pdf>. ISSN NO: 1548-7741
29. Microwave Synthesis Of Lanthanum Doped Nano Hydroxyapatite Prepared From Duck Egg Shell, G. Nedunchezian, C.Vijayaraj , D. Benny Anburaj, International Journal of Scientific & Technology Research,9(2), 5565-5570,2020.5673-5676,2020. <http://www.ijstr.org/paper-references.php?ref=IJSTR-0220-30893> , ISSN NO: 2277-8616

30. Fabrication and characterization, antimicrobial study of silver doped nano hydroxyapatite from wet land crab shell (cardisoma), G. Nedunchezian, C. Vijayaraj, D. Benny Anburaj, journal of the maharaja sayajirao university of baroda, volume-55, no.1 (ii) 2021,5-10.

31, Synthesis And Characterization, Photoluminescence Properties Of Mn Doped ZnO Nanoparticles By Sol Gel Method, B.sathya, G. Nedunchezian, D. Benny Anburaj, S. Joshua Gnanamuthu, Wesleyan Journal Of Research, Vol.14 No.01(Iv)(January 2021).

1-5.

#### POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

- National workshop on SEM-CISL, Annamalai University, Chidambaram on 05.03.2010
- ICMR sponsored national seminar on Emerging Infectious Diseases and management at Thiru. Vi. Ka. Govt. Arts College, Thiruvarur on 27.01.2011 & 28.01.2011.
- State level workshop on Recent Advances in Technologically Significant Materials (TANSCH) Sponsored, at AVVM Sri Pushpam College, Poondi on 12.01.2015.
- Workshop on The Art of scientific writing- IQAC- at DGG Arts College, Mayiladuthurai on 31.01.2015
- Workshop on statistical Physics and material Science at NIT Trichy on 21.07.2016 & 22.07.2016.
- Paper Presented in the national conference at Annamalai University, Frontier Areas in Applied Physics (NCFAAP-2016), Chidambaram on 27.04.2016.
- Paper Presented in the International conference on Nanomaterial's and molecular Research (ICNMR-2016) at St. Josephs College, Cuddalore on 8.12.2016 & 09.12.2016
- International conference on Chemical and Environmental Research (ICCER-2017) at Jammal Mohamed College, Trichy on 07.01.2017.
- Paper presented in the International conference on FACTs 2019 at Alagappa University, Karaikudi on 25.07.2019 & 26.07.2019.
- Paper presented in the International Conference, ETIC 2019 at Sengamalathayar Womens College, Mannargudi on 20.08.2019.
- Symposium on Emerging Trends in Chemistry-(ETC-2019) at Thiru. Vi. Ka. Govt. Arts College, Tiruvarur on 23.09.2019.
- Paper presented in the National Conference, NCETMS- 2019, at Government Arts College, Tiruvannamalai on 26.09.2019 & 27.09.2019.
- Assessing Quality in Higher Education, organized by Central University of Tamil Nadu, Tiruvarur on 19.09.2019 to 20.09.2019.

- International conference on Chemical and Environmental Research (ICCER-2020) at Jammal Mohamed College,Trichy on 08.01.2020.
- One week online FDP (Faculty Development Program ) on The virtual Physics Labs-Creating Next generation teachers organized by Geethanjali College of Engineering, Telungana on 20.05.2020 to 24.05.2020 .
- One week online FDP (Faculty Development Program ) on Advanced Material Research organized by BIET & Indian Ceramic Society from 15.06.2020 to 19.06.2020 .
- An online training program for CSIR NET Exam Physical Sciences organized by PG & Research department of Physics,Bishop Heber College,Trichy on 02.06.2020 to 05.06.2020.
- One Day Training Cum orientation Program on English for Physical sciences conducted by Bharathiyar University ,Coimbatore in association with TANSCHER on 30.10.2020.

#### CONFERENCE ORGANIZED IN NATIONAL AND INTERNATIONAL LEVEL

Convenor ,National Conference on Recent Trends in Material Science (NCRMTS-2020),Jointly organized by Dept. of Chemistry and Physics,Thiru.Vi.Ka.Govt.Arts College,Tiruvarur,14-02-2020.

#### BOOKS PUBLISHED

1. Authored a book on “Veppathin Vilaivum Suzhnilaiyial Seerkedum” for UG Students for all universities which is published by **mother Environment Social Educational & Research foundation, Cuddalore, January 2008.**
2. Authored a book on “Experiments on Physics” for UG Students for all universities which is published by **mother Environment Social Educational & Research foundation, Cuddalore, February 2008.**

#### CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM (2015-2019))

Publications	: 30
In Journals	: 28
In Conferences	: 02
Citations	: 42
h -index	: 05
i10-index	: --
Cumulative Impact factor	: --

### MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

- ✚ Member IQAC Programme, at Thiru Vi Ka Government Arts College, Thiruvarur, (2014-2015)
- ✚ Co ordinator ADHAR connecting in salary bill at Thiru Vi Ka Government Arts College, Thiruvarur (2015-2016)
- ✚ Served as Audio Visual incharge at Thiru Vi Ka Government Arts College, Thiruvarur ( 2016 onwards)
- ✚ Department Library incharge at Thiru Vi Ka Government Arts College, Thiruvarur ( 2016 onwards)
- ✚ Served as a Question paper setter for UG and PG Examination at saradha College ,Salam and AVC College ,Mayiladuthurai
- ✚ Served as a Examiner for U.G, P.G. Theory and Practical examinations of the Bharathidasan University from 2008 to till date.
- ✚ Served as a External Examiner for M.Phil Examinations of the Bharathidasan University from 2009 to till date.
- ✚ Served as Additional Chief Superintendent Bharathidasan University Examinations November 2018 and April 2018 at Thiru.Vi.Ka.Government Arts College Thiruvarur.



- ✚ Served as Additional Camp Officer Bharathidasan University Examinations November 2019 at Thiru.Vi.Ka.Government Arts College Thiruvarur.
- ✚ Life Member, Society for Advancement of Chemical Sciences and Education,IGCAR, Kalpakkam, Since 18.02.2021 onwards.

### POSITION HELD / LEADERSHIP ROLE PLAYED

- ✚ Served as a HOD In charge in Physics Department at M.R. Government Arts College, Mannargudi, from 13<sup>th</sup>October 2008 to 2<sup>nd</sup> July 2009.
- ✚ Served as NSS Programme officer at Thiru.Vi.Ka.Govt.Arts College,Thiruvarur from July 2018 on wards

### TRAINING PROGRAMME

#### Orientation Course (UGC Sponsored)

Place : Academic Staff College, University of Madras, Chennai.

Duration : 13.10.2008 to 08.11.2008

#### Refresher Course in Physics (UGC Sponsored)

Place : Academic Staff College, Bharathidasan University, Trichy.

Duration : 27.01.2012 to 16.02.2012

#### Refresher Course in Instrumentation Science (UGC Sponsored)

Place : Academic Staff College, University of madras, Chennai.

Duration : 28.11.2013 to 18.12.2013

#### Refresher Course in Environmental Studies (UGC Sponsored)

Place : Academic Staff College, Bharathiar University,Coimbatore.

Duration : 04.07.2018 to 24.07.2018

#### Short Term Course on Disaster Management (UGC Sponsored)

**Dr. G.NEDUNCHEZHIAN, M.Sc, M.Phil, Ph.D**

Assistant Professor, PG and Research Department of Physics,  
Thiru. Vi. Ka. Govt. Arts College, Thiruvarur -610 003, Tamil Nadu, India.

**Place** : Academic Staff College, Bharathiar University,Coimbatore.

**Duration** : 04.12.2019 to 10.12.2019

**Online Short Term Course on MOOCs, e-Content Development and Open Education resources (UGC Sponsored)**

**Place** : Academic Staff College, Jawaharlal Nehru technological University, Hyderabad.

**Duration** : 13.07.2020 to 18.07.2020.

**Infosys BPO Training Programme**

**(Train the Trainer)-Project Genesis**

**Place** : Infosys BPO Ltd, Chennai.

**Duration** : 20.09.2011 to 30.09.2011

**TANSICHE & ICT Academy of Tamil Nadu Training Programme**

**Soft Skill and Industry Awareness**

**Place** : Periyar Maniammai University Thanjavur.

**Duration** : 23.01.2018 & 24.01.2018.

**IQAC workshop-Assessing Quality in higher Education**

**Place** : Central University of TamilNadu,Thiruvarur.

**Duration** : 19.09.2019 & 20.09.2019.

**TEACHING EXPERIENCE FROM 2004 TO TILL DATE**

**Total Teaching Experience** : 16 years

**Under Graduate** : 16 years

**Post Graduate** : 08 years

**PERSONAL DETAILS**

**Name** : G.NEDUNCHEZHIAN

**Gender** : Male

**Date of Birth** : 25.06.1977  
**Age** : 43 years  
**Place of Birth** : Radhanallur, Sirkali Taluck  
**Marital Status** : Married  
**Residential Address** : 99/5, Arun Complex,  
Main Road,  
Kottucherry,  
Karaikkal - 609 609.  
**Phone:** Nil  
**Mobile:** 94437 85388.  
80726 10119.

**Official Address** : Assistant Professor,  
PG and Research Department of Physics,  
Thiru. Vi.Ka. Government Arts College,  
Thiruvarur - 610 003, TamilNadu, India.  
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**Email** : [gncphysics@gmail.com](mailto:gncphysics@gmail.com)  
**Web** : <http://www.thiruvikacollege.co.in>