

Name and Qualification

Name : Dr.S.Nithiyantham, PhD;
Designation : Asst Professor
Department : Physics
Subject Interest : Condensed matter physics,
Computational & theoretical physics
Specialization :
For more Information :



DETAILS OF PROFESSIONAL AND RESEARCH EXPERIENCE (SPECIFYING PERIOD)

Lecturer in Physics

Institute : Sembodai R.V. Polytechnic, Sembodai. Vedaranyam.
Period : 2001-2002
Teaching Areas : General Physics

Lecturer in Physics

Institute : Madha Engineering College, Kundrathur, Chennai-69
Period : 2007-2008
Teaching Areas : General Physics

Asst Professor/Research Guide

Institute : SRM University,
Period : 2008-2015
Teaching Areas : Engineering Physics, BSc,
Research Areas : Ultrasonics, Spectroscopy, Applied Physics,
Environmental Chemistry,

Asst Professor/Research Guide

Institute : Thiru. A. Govindasamy Govt Arts College, Tindivanam.
Period : 2015-2016
Teaching Areas : UG, PG Physics
Research Areas : Ultrasonics, Spectroscopy, Applied Physics,
Environmental Chemistry,

Research Areas :

ACADEMIC PROFILE

Ph.D.,

University : Annamalai University
Date and Place : Sep. 2008
Research Supervisor : Prof. Dr. L. Palaniappan, PhD,

Title of Thesis : Ultrasonic Investigations on Enzyme and Carbohydrate Mixtures,

M.Phil.,

University : Bharathidasan University,
Main Subject : Physics
Year : 2001
Class : I
Supervisor : Prof. D. Devedoss,
Title of Dissertation : Photochemical II-VI compound Semiconductor thin film of ZnS from aqueous solution

M.Sc.,

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

B.Sc.,

University : Bharathidasan University,
College : Thiru. Vi. Ka. Govt Arts College, Thiruvarur.
Main Subject : Physics
Year : 1997
Class : I

H.Sc.,

Board : STATE Board
Main Subject : MPC
Year : 1994

S.S.L.C

Board : STATE Board
Main Subject : General
Year : 1992

RESEARCH PROJECTS

Completed

Funding Agency :
File Number :
Year :
Amount Received :
Title :

Ongoing

Funding Agency :
File Number :
Amount Received :
Title :

Accepted

Funding Agency :
File Number :
Year :
Amount Received :
Title :

Funding Agency :
File Number :
Year :
Amount Received :
Title :

WORKSHOPS ORGANIZED

1. Funding Agency :
Date :

- | | | |
|-----------|------------------------|---|
| | Amount Received | : |
| | Place | : |
| 2. | Funding Agency | : |
| | Date | : |
| | Amount Received | : |
| | Place | : |
| 3. | Funding Agency | : |
| | Date | : |
| | Amount Received | : |
| | Place | : |
| 4. | Funding Agency | : |
| | Date | : |
| | Amount Received | : |
| | Place | : |
| 5. | Funding Agency | : |
| | Date | : |
| | Amount Received | : |
| | Place | : |

RESEARCH GUIDANCE

M.Phil.,

Number of M.Phil., Scholars	:
Degree Awarded	:

Ph.D.,

Number of PhD Scholars	:
Degree Awarded	: 1
Thesis Submitted	:
Synopsis Submitted	:

AWARDS AND DISTINCTION

1.

PUBLICATIONS - ARTICLES PUBLISHED IN JOURNALS

Dr.S.Nithiyanantam

Bio-Molecular interaction and catalytic activities by enzyme studies in maltose with a-amylase - Experimental and Theoretical approach S Nithiyanantham Journal of Advanced Physics 5, 249-253, _2016

Study on Noise Pollution at SRM University Campus (South India–Asia), S.Nithiyanantham and J. S. SudarsanAdvanced Science, Engineering and Medicine 8 (1-10) _2016

Ultrasonic studies on aqueous monosaccharides with enzyme amylase, S Nithiyanantham, L Palaniappan, Journal of Molecular Liquids 221, 401 – 407, _2016

FTIR spectroscopic studies of rock sediments in Namakkal, Tamil Nadu, South India, for vegetations S Mullainathan, S Nithiyanantham, Environmental Earth Sciences 75 (8), 1-8, _2016

Physico-mechanical investigations on mineralogical 5 clay-based ceramic bodies with rock residue R.Vijayaragavan, S. Mullainathan, P. Ambalavanan and S. Nithiyanantham

Journal of kings Saud University - Engineering Science, _2016

An empirical model to estimate density of sodium hydroxide 1 solution: An activator of geopolymer concretes, N.P. Rajamane, M.C. Nataraja, R. Jeyalakshmi, and S. Nithiyanantham European Physical journal plus 131 (28), _2016

Synthesis and characterization of nanophase zinc oxide materials, YA Sumanth, RA Sujatha, S Mahalakshmi, PC Karthika, S Nithiyanantham,S. Saravanan, M. Alagiri, Journal of Materials Science: Materials in Electronics 27, 1616 – 1621, _2016

Constructed wetland – an easy and cost-effective alternative for the treatment of leachate, DJR, M.G. Prathap, J.S. Sudarsan, Moitrayee Mukhopadhyay and S. Nithiyanantham, Int. J. Energy Technology and Policy 11 (4), 371-179 (2015).

Structural and Bio-Molecular interaction studies of starch +a-amylase at 298.15 K, S Nithiyanantham, Journal of computational and theoretical nanoscience 12 (1), 2062 – 2066, _2015

Value of Understanding and Accepting for the Students of Professional Studies. Sivaranjani, B.Swathy and S. Nithiyanantham, Journal of Education and practice 6 (25), 117-126, _2015

Physico-Chemical and Bio-Chemical Nature of Pectin with Amylase, S Nithiyanantham, L Palaniappan, M Lenin Journal of Bionanoscience 9 (5), 359-362, _2015

Structural and Morphological Studies of Copper-Doped Nickel Ferrite, S Mahalakshmi, KS Manja, S Nithiyantham, Journal of Superconductivity and Novel Magnetism 28 (10), 3093-3098, 2015

Removal of heavy metal from casting sand in valve manufacturing industry through bioremediation technique, JS Sudarsan, K Prasanna, P Kishorekumar, SBS Mohan, S. Nithiyantham, Sustainable Water Resources Management 1 (3), 263-266	2015
Disruption of Cell Through High Pressure Homogenizer N Saranya, P Devi, AL Flower, S Nithiyantham, Journal of Bionanoscience 9 (4), 315-317	2015
Probability analysis for consecutive-day maximum rainfall for Tiruchirapalli City (south India, Asia), RM Sabarish, R Narasimhan, AR Chandhru, CR Suribabu, J Sudharsan, S. Nithiyantham. Applied Water Science, 1-10	2015
Greener durable concretes through geopolymerisation of blast furnace slag NP Rajamane, MC Nataraja, R Jeyalakshmi, S Nithiyantham, Materials Research Express 2 (5), 055502	1 2015
Domestic wastewater treatment performance using constructed wetland VTDSN J. S. Sudarsan, Reenu Lizbeth Roy, G. Baskar and S. Nithiyantham Sustainable Water Resources Management, 1-8, DOI 10.1007/s40899-015-0008-5	2015
Comparative study of electricity production and treatment of different wastewater using microbial fuel cell (MFC), JS Sudarsan, K Prasana, S Nithiyantham, K Renganathan, Environmental Earth Sciences 73 (5), 2409-2413	3 2015
Growth and Characterization (Structural and Chemical) of Urea Crystals P Vinupritha, S Mullainathan, Nithiyantham, Advanced Chemistry Letters 2 (1), 55-57	2015
Cells Disruption by Ultrasonication N Saranya, P Devi, S Nithiyantham, R Jeyalaxmi, BioNanoScience 4 (4), 335-337	1 2014
Excess Thermodynamical Studies of Dextrin with α -Amylase S Nithiyantham, L Palaniappan, BioNanoScience 4 (4), 316-321	1 2014
Electrical properties of nanophase ferrites doped with rare earth ions S Mahalakshmi, K SrinivasaManja, S Nithiyantham Journal of Superconductivity and Novel Magnetism 27 (9), 2083-2088	7 2014
Estimation of Sound Velocity in the Ternary Liquid System at 303.15, 308.15 and 313.15 K V Vanathi, S Nithiyantham, S Mullainathan, Journal of Advanced Physics 2 (3), 185 - 189	2014
Ultrasonic investigation on aqueous polysaccharide (starch) at 298.15 K S Nithiyantham, L Palaniappan, Arabian Journal of Chemistry 7, 272 - 276	6 2014

Physico-chemical and Structural Studies on α -D-Fructose with α -Amylase S Nithiyantham, bionanosience 1 (2), 1-6	1	2014
Physicochemical and Adsorption Study in Sucrose Metabolism S Nithiyantham, S Mahalakshmi, L Palaniappan, BioNanoScience 4 (1), 52-58		2014
Theoretical Estimation of Sound Velocity in the Ternary Liquid Systems (Dextrin+ α -Amylase) at 298.15 K, S Nithiyantham, L Palaniappan Journal of Bionanosience 8 (1), 56-60	1	2014
Structural and Biomolecular interactions studies amylase with starch at 298.15 K S Nithiyantham, Journal of computational and theoretical nanoscience		2014
Physico-Chemical and Structural Studies on Maltose with -Amylase in Aqueous Media at 298.15 K S. Nithiyantham, and L Palaniappan, Journal of computational and theoretical nanoscience, 1721-1725		2014
Physico-chemical studies on some saccharides in aqueous cellulose solutions at different temperatures – Acoustical and FTIR analysis S. Nithiyantham, S. Punithaa, Journal of Saudi Chemical Society, 18(5), 657- 665	8	2014
Elemental Analysis of Some Rock Samples from Namakkal, Tamil Nadu, India, S Mullainathan, S Nithiyantham, Journal of Advanced Physics 2 (4), 254 - 259	1	2013
Bio-Molecular Interaction Studies in the System of Pectin + α -amylase at 298.15 K S Nithiyantham, Bionanosience 3, 451-455		2013
Magnetic studies of nickel ferrite doped with rare earth ions S Mahalakshmi, KS Manja, S Nithiyantham, M Rajah, Russian Journal of Physical Chemistry A 87 (11), 1938-1939	1	2013
Molecular Interaction Studies in the System of Glucose+ α -Amylase at 298.15 K, S Nithiyantham, Journal of Advanced Physics 2 (3), 224-228	1	2013
Physico-Chemical and Structural Studies on Starch in Aqueous Media at 298.15 K. S Nithiyantham, Advanced Chemistry letters 1 (2), 148 - 152	1	2013
Physico-Chemical and Excess Thermo Acoustical Study on Some Monosaccharide (Galactose) with Enzyme Amylase in Aqueous Media at 298.15 K, S Nithiyantham, L Palaniappan, Journal of Bionanosience 7 (3), 292-295	17	2013
Synthesis and Characterization of Strontium Ferrite Nano Powder MJS. Nithiyantham, N C. Thirupathi, Asian Journal of Chemistry 25 (Supplementary), s160 - s162		2013
Study of CoFe ₂ O ₄ particles synthesized with various concentrations of PVP polymer, M Sivakumar, S Kanagesan, V Umapathy, RS Babu, S Nithiyantham Journal of superconductivity and novel magnetism 26 (3), 725-731	9	2013

Physico-Chemical and Structural Studies on α -Amylase in Aqueous Media at 298.15 K, S Nithiyantham, L Palaniappan, Journal of Advanced Physics 2 (1), 48-52	1	2013
Physicochemical studies on some disaccharides (sucrose, lactose, maltose) in aqueous media at 298.15 k, S Nithiyantham, L Palaniappan Chem. Sci. Trans. 2, 35-40	5	2013
Mineralogical Characterization Studies on Unburnt Ceramic Product Made from Rock Residue Additives by Ft-Ir Spectroscopic Technique R. VIJAYARAGAVAN, S.Mullainathan, S. Nithiyantham, Balachandramohan, Int. J. Mod. Phys. Conf. Ser. . DOI: 10.1142/S2010194513009938, 62	1	2013
Synthesis, Characterization and Effects of Citric Acid and PVA on Magnetic Properties of CoFe ₂ O ₄ M. Sivakumar, SSKKCR S. Nithiyantham, Journal of Inorganic and Organometallic Polymers and Materials 23 (2), 439-445	4*	2013
Physio chemical studies on the ternary mixture of chlorobenzene+chloroform+cyclohexane liquid mixtures at 303.15, 308.15 and 313.15 K S Vanathi, V. Mullainathan, S. Nithiyantham, Journal of computational and Theoretical nanoscience 10 (9), 1952-1955	3	2013
Physico-Chemical studies on the binary mixture of chloroform + clohexane liquid mixtures at 303.15, 308.15 and 313.15 k S Vanathi, V. Mullainathan, S. Nithiyantham, Asian Journal of Chemistry	1	2013
Synthesis and Characterization of Pure, Co and Fe-Doped ZnO Nanoparticles, C Thirupathi, D Rajkumar, S Nithiyantham, asian journal of chemistry		2013
Thermodynamic studies of lactose with amylase in aqueous media at 298.15 K, S Nithiyantham, L Palaniappan, Journal of Computational and Theoretical Nanoscience 9 (12), 2193-2197	1	2012
Estimation of Theoretical Sound Velocity in the Ternary Liquid Systems (Glucose+ α -Amylase Solution), S Nithiyantham, L Palaniappan, R Jeyalakshmi Journal of Computational and Theoretical Nanoscience 9 (8), 1115-1119	5	2012
Ultrasonic Study of Adsorption in Polysaccharide (Dextrin) Metabolism S Nithiyantham, L Palaniappan, R Jayalaxmi, Journal of Bionanoscience 6 (1), 44-48	5	2012
Acoustical studies on fructose with enzyme amylase in aqueous media at 298.15 K, S Nithiyantham, L Palaniappan, Russian Journal of Physical Chemistry A 86 (2), 219-222	4	2012
Ultrasonic study on some monosaccharides in aqueous media at 298.15 K S Nithiyantham, L Palaniappan, Arabian Journal of Chemistry 5 (1), 25-30	11	2012

Thermodynamical and Excess thermoacoustical study on some polysaccharide(dextrin) with enzyme amylase in aqueous media at 298.15 K, LP S. Nithiyantham, International Journal of Applied Sciences and Nanotechnology 1 (1), 29 -34		2012
Acoustical Studies on the Ternary Mixture of 1, 4-Dioxane V Vanathi, S Mullainathan, S Nithiyantham, Journal of Chemistry 9 (1), 415-419		2012
Study of CoFe ₂ O ₄ Particles Synthesized with Various Concentrations of PVP Polymer MSSKVUR S. Nithiyantham, Journal of superconductivity and novel magnetism		2012
Acoustical parameters of toluene + chloroform + cyclohexane mixtures at 303.15, 308.15, and 313.15 K S. Nithiyantham, V.vanathai, S.Mullaiathan, Russian Journal of Physical chemistry A 86 (8), 1204 - 1207	2	2012
Acoustical studies on the ternary mixture of 1, 4-dioxane + chloroform + cyclohexane liquid mixtures at 303.15, 308.15 and 313.15 K, V. Vanathi, S. Mullainathan, S. Nithiyantham, E- Journal of Chemistry 9 (1), 415		2012
Ultrasonic studies of polysaccharide (pectin) in aqueous media at 298.15 K, S Nithiyantham, L Palaniappan, Russian Journal of Physical Chemistry A 85 (12), 2126-2128	4	2011
ACOUSTICAL STUDIES ON THE TERNARY MIXTURE OF BENZENE + CHLOROFORM + CYCLOHEXANE LIQUID MIXTURES AT 303.15, 308.15 AND 313.15 K S. Nithiyantham, V. Vanathi1, S. Mullainathan1, Internaltional journal of current research and review 3 (11), 164 - 169		2011
Studies on the photochemical deposition (PCD) of II–VI compound semiconductor thin films of ZnS from aqueous solution, KA S. Nithiyantham, R. Gopalakrishnan, Applied solar energy 47 (3), 239-242	1	2011
Estimation of Theoretical Sound Velocity in the (Bio-Ternary) Liquid Systems (α -amylase+ Galactose) at 298.15 K S Nithiyantham, L Palaniappan, Arabian Journal for Science and Engineering 36 (4), 655-661	1	2011
Ultrasonic study of adsorption in polysaccharide (starch) metabolism S Nithiyantham, L Palaniappan, D Raja, Frontiers of Chemistry in China 6 (2), 147-152	5	2011
Thermodynamical and excess thermoacoustical study on some monosaccharide (glucose) with enzyme amylase in aqueous media at	15	2011

298.15 K S Nithiyantham, L Palaniappan, The European Physical Journal Applied Physics 53 (3), 31101		
Ultrasonic study of adsorption in disaccharide (maltose) metabolism S Nithiyantham, L Palaniappan, Applied Acoustics 71 (8), 754-758	11	2010
Ultrasonic Studies of Dextrin in Aqueous Media at 298 K S Nithiyantham, L Palaniappan, Asian Journal of Chemistry 22 (7), 5419	1	2010
Molecular Interaction Studies of Galactose in Aqueous α -Amylase Solution at 298 K S Nithiyantham, L Palaniappan, Asian Journal of Chemistry 22 (7), 5413	4	2010
Ultrasonic study of molecular interactions in binary mixtures at 303 K S Mullainathan, S Nithiyantham, Journal of Chemistry 7 (2), 353-356	5	2010
acoustical studies of lactose in aqueous amylase solution at 298 k S. Nithiyantham and Palaniappan, Acta Ciencia Indica 35 (3), 447 - 453		2009
Ultrasonic studies of some binary solutions of meta aminophenol in dioxane, methanol and acetonitrile S. Mullainatham and S. Nithiyantham, Materials Science Research India 6 (2)		2009
Molecular Interaction Study on Binary Mixture of Phenol in Dioxane, Methanol and Acetonitrile at 303 K, S Mullainathan, S Nithiyantham, M Rajasekaran, Asian Journal of Chemistry 21 (6), 4789		2009
Ultrasonic Investigation On Aqueous α -Amylase, S Nithiyantham, L Palaniappan, Rasayan Journal of Chemistry 2 (3), 709-711	4*	2009
“Ultrasonic Study on binary mixture of ortho amino phenol in dioxane, methanol and acetonitrile at 303 K”, S. Mullainathan, S. Nithiyantham, and M Rajasekaran, Journal of Current Science 12 (2), 659		2009
Thermo acoustical studies on some electrolytic solvent mixtures at 303 K, S Nithiyantham, S Mullainathan, R Jayalakshmi, Oriental Journal of Chemistry 25 (3), 759	6	2009
Ultrasonic investigation of molecular interactions in binary mixtures at 303 K, R Nithya, S Nithiyantham, S Mullainathan, M Rajasekaran Journal of Chemistry 6 (1), 138-140	30	2009
ULTRASONIC INVESTIGATION ON AQUEOUS α -AMYLASE AT 298 K, S Nithiyantham, L Palaniappan, Rasayan Journal of chemistry 2		2009

(3), 701-711

RESEARCH PAPERS ACCEPTED FOR PUBLICATION AND UNDER REVIEW

1. 3

POSTERS AND PAPERS PRESENTED IN NATIONAL AND INTERNATIONAL LEVEL

1. 25

BOOKS PUBLISHED

1. nil

CITATION INDICES DETAILS (REFER GOOGLE SCHOLAR FROM 2007-2015)

Publications	: 71
In Journals	: 60
In Conferences	: 11
Citations	: 267
h-index	: 9
i10-index	: 9
Cumulative Impact factor	: 30

MEMBERSHIP IN BODIES ON EDUCATION AND NATIONAL DEVELOPMENT

1. LMSTE, 2. LMIPA

POSITION HELD / LEADERSHIP ROLE PLAYED

1. NSS - Programme Officer Unit - III (SRM University)
2. Bridge course coordinator

INVITED GUEST LECTURES

1. Fundamental of viscosity - Govt Arts College, Namakkal, (Feb. 2015)

TRAINING PROGRAMME

Orientation Course (UGC Sponsored)

Place :

Duration :

Refresher Course in Environmental science (UGC Sponsored)

Place :

Duration :

Refresher Course in Chemistry (UGC Sponsored)

Place :

Duration :

TEACHING EXPERIENCE FROM 1993 TO TILL DATE

Total Teaching Experience : 11 years
Under Graduate : 11 years
Post Graduate : 2 years

PERSONAL DETAILS

Name : S. Nithiyantham
Gender : Male
Date of Birth : 12-01-1977
Age : 39
Place of Birth : Kilvelur
Marital Status : Single

Residential Address : Shanthi Bhavanam,
49, Azad Nagar, Kilvelur (T.K.)
Kilvelur - 611104.

Official Address : Thiru. Vi. Ka. Govt Arts College, Thiruvarur
Email : s_nithu59@rediffmail.com
Web :