SURESH **SATHYANATHAN**

Flat No.1G, Tower 5, Park Avenue Apartment, No3. Venkadamangalam Road, Kandigai, Chennai - 600127·
+91-9884633846
profsuresh1@gmail.com · https://www.linkedin.com/in/dr-suresh-sathyanathan-a9a2502b/ ·
Orcid ID: https://orcid.org/0000-0003-4873-5914

Experienced and enthusiastic Teacher with a passion for teaching, research and inspiring others. Committed to learning about varying educational philosophies, and motivated by my appreciation of the human spirit and our innate desire to learn. Bringing forth dedication, a love of education, researchand the desire to positively impact the lives of students.

EXPERIENCE

JULY 2023 – TILL DATE

ASSOCIATE PROFESSOR, ST. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI

Teaching physics with innovative ideas and guiding students with project works, and being an active member in all academic and non-academic activities. **AS OF NOW GUIDING TWO PH.D. CANDIDATES.**

JANUARY 2007 – JUNE 2023

ASSISTANT PROFESSOR, ST. JOSEPH'S COLLEGE OF ENGINEERING, CHENNAI

Teaching physics with innovative ideas and guiding students with project works, and being an active member in all academic and non-academic activities.

OCTOBER 2005 – DECEMBER 2006

LECTURER, S.M.K. FOMRA INSTITUTE OF TECHNOLOGY, CHENNAI

Teaching physics and class counsellor.

EDUCATION

JANUARY 2020

CSIR-UGC NET, QUALIFIED FOR LECTURESHIP / ASSISTANT PROFESSOR

Physical Sciences

JULY 2017

PH.D. (PHYSICS), BHARATHIAR UNIVERSITY, COIMBATORE

Doctoral Program Title: Synthesis, Characterization and Spectral Investigations of Various Transition Metal Oxide Nanoparticles for Diverse Applications

FEBRUARY 2006

M.PHIL. (PHYSICS), DEPARTMENT OF NUCLEAR PHYSICS, UNIVERSITY OF MADRAS

M.Phil. Thesis Title: Electrical and Magnetic properties of nanocrystalline cobalt ferrite ($CoFe_2O_4$)

APRIL 2004
M.SC. (PHYSICS), PRESIDENCY COLLEGE, CHENNAI
FIRST CLASS (69 %)

APRIL 2002
B.SC. (PHYSICS), PRESIDENCY COLLEGE, CHENNAI
FIRST CLASS (69 %)

FACULTY DEVELOPMENT PROGRAM

"ELECTROSPINNING NANOFIBERS: SCIENCE, TECHNOLOGY AND APPLICATIONS", 12 to 16th July 2021, Indian Institute of Information Technology Nagpur.

FDP ON "ENGINEERING PHYSICS - I (PH8161)", 14 to 19th June 2021, Indra Ganesan College of Engineering, Tiruchirappalli.

"VIRTUAL LAB IN PHYSICS", 3rd to 7th February 2021, Department of Physics, B.N.M. Institute of Technology, Bengaluru.

"GREEN TECHNOLOGY & SUSTAINABILITY ENGINEERING", 11 to 15th January 2021, Motilal Nehru National Institute of Technology Allahabad, AICTE Training and Learning (ATAL) Academy.

"PHOTONICS", 3rd to 7th November 2020, Rajarshi Shahu Mahavidyalaya, Latur, Chandranagar, AICTE Training and Learning (ATAL) Academy.

"UNIVERSAL HUMAN VALUES FOR STUDENT INDUCTION (FDP-SI)", 19 to 23 October 2020, AICTE Incorporating Universal Human Values in Education.

"NOVEL MATERIALS", 5 to 9th October 2020, Pillai College of Engineering, AICTE Training and Learning (ATAL) Academy.

FACULTY DEVELOPEMENT PROGRAM ON "NANOMATERIALS FOR ENERGY HARVESTING AND BIOMEDICAL APPLICATIONS" held from 18th to 22 nd May 2020, GIET, A.P., India.

"MEDICAL BIOMATERIALS", Feb-April 2020, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

WORKSHOP ATTENDED

"THE EXCITEMENT OF COLLEGE PHYSICS 2019" 6th July 2019, Division of Physics, School of Advanced Sciences, VIT Chennai & Indian Association of Physics Teachers (IAPT).

"MATERIALS CHARACTERZATION WORKSHOP (MCW-2018)", 26-27 July 2018, Department of Chemistry, SRM Institute of Science and Technology, Kattankulathur - 603203.

"RECENT TRENDS IN FABRICATION & CHARACTERIZATION OF NANO COMPOSITES RELATED TO COMBAT VEHICLE COMPONENTS" 5-6th July 2018, Department of Mechanical Engineering, S. A. Engineering College, Thiruverkadu, Chennai.

NATIONAL WORKSHOP ON "OPTICAL SPECTROSCOPY", 2nd - 3rd July 2018, Sophisticated Analytical Instrument Facility (SAIF), Indian Institute of Technology, Chennai.

"EMERGING TRENDS IN NANOTECHNOLOGY RESEARCH (ETNR-2011)", 20th and 21st July 2011, Department of Science & Humanities, Jeppiar Engineering College, Chennai.

"INSTRUCTIONAL DESIGN AND DELIVERY", 28 to 30th July 2006, at SMK Fomra Institute of Technology by NITTTR, Chennai.

"WORKSHOP ON CRYSTAL GROWTH METHODS", 1st and 2nd April 2006, SSN College of Engineering, Kalavakkam, Kanchipuram.

"A SEMINAR ON NANOTECHNOLOGY", 13th and 14th November 2006, Hindustan College of Engineering, Padur.

"T.Q.M. WORKSHOP", 15th November 2006, at S.M.K. Fomra Institute of Technology conducted by RIPE institute private limited, Nanganallur.

ONLINE CERTIFICATION

"X-RAY CRYSTALLOGRAPHY & DIFFRACTION", July-October 2023, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

"NANOTECHNOLOGY, SCIENCE AND APPLICATIONS", July-September 2023, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

"ATOMIC AND MOLECULAR PHYSICS", January-April 2023, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

"PHYSICS OF RENEWABLE ENERGY SYSTEMS", July-October 2022, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

"BIOPHOTONICS", JANUARY-APRIL 2022, NPTEL ONLINE CERTIFICATION (FUNDED BY MINISTRY OF HRD, GOVT. OF INDIA).

"NANOMATERIALS AND THEIR PROPERTIES", JANUARY-APRIL 2019, NPTEL ONLINE CERTIFICATION (FUNDED BY MINISTRY OF HRD, GOVT. OF INDIA).

"SOLAR PHOTOVOLTAICS FUNDAMENTALS, TECHNOLOGY AND APPLICATIONS", JANUARY-APRIL 2019, NPTEL ONLINE CERTIFICATION (FUNDED BY MINISTRY OF HRD, GOVT. OF INDIA).

MEDICAL BIOMATERIALS, Feb-April 2020, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

ULTRAFAST OPTICS AND SPECTROSCOPY, July-October 2019, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

PHYSICS OF MATERIALS, July-October 2019, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

INTRODUCTION TO SOLID STATE PHYSICS, January-April 2019, NPTEL Online Certification (Funded by Ministry of HRD, Govt. Of India).

SCHOLASTIC ACHIEVEMENTS

"BEST FACULTY AWARD", GLOBAL ICONIC EDUCATION AWARD 2022, Saveetha School of Management, SIMATS, Chennai.

NPTEL TRANSLATION, POWER SYSTEM ANALYSIS (117105140), November 2021, Translated to Tamil Language.

NPTEL TRANSLATION, BASIC ELECTRICAL CIRCUITS (117106108), November 2021, Translated to Tamil Language.

NPTEL TRANSLATION, INTRODUCTORY QUANTUM MECHANICS (115104096), July 2021, Translated to Tamil Language.

NPTEL TRANSLATION, INTRODUCTION TO ELECTROMAGNETISM (115104088), April 2021, Translated to Tamil Language.

BOOK CHAPTER TITLE: "METAL OXIDE NANOMATERIALS FOR SENSOR APPLICATIONS", 15 January 2020, https://doi.org/10.1002/9781119364726.ch6

NPTEL TRANSLATION, EXPERIMENTAL PHYSICS I (115105110), September 2020, Translated to Tamil Language.

INVITED TALK "ENGINEERING PHYSICS-AN OVERVIEW", September 2020, Sri Venkateswaraa College of Technology.

WEBINAR- ORGANIZER,"RECENT TRENDS IN MATERIAL FRONTIERS" St. Joseph's College of Engineering, Chennai-600119.

PROJECT REVIEWER, MAY 2017, FUNDING SCHEME SONATA, RESEARCH ON INNOVATIVE NANOCOMPOSITES WITH ANTIMICROBIAL PROPERTIES, Dr Inż. Jolanta Agata Pulit-Prociak, Tadeusz Kościuszko Cracow University of Technology, No. 355982, Panel ST8, National Science Center, Poland.

LIST OF PUBLICATIONS

R. MURALIDHARAN, J. CHARLES, B. SAMPATH, S. SATHYANATHAN. "AN EFFICIENT BIPHASE MOO3/ZRO2 CATALYST FOR VISIBLE LIGHT-DRIVEN PHOTOCATALYTIC DEGRADATION OF METHYLENE BLUE: REUSABILITY AND DETOXICITY ASSESSMENT". PHYSICA STATUS SOLIDI (A). 2025. 10.1002/PSSA.202500169.

J LURDHUMARY, A SAILESH, D PRASAD, N KRISHNAMOORTHY, P SIVABALAN, S SURESH, SP RAJA, GNS VIJAYAKUMAR, K UMA. "MECHANICAL AND PHYSICOCHEMICAL CHARACTERISTICS OF NANO-HYDROXYAPATITE POLYMER COMPOSITES". STM JOURNALS. VOLUEME 13, ISSUE 2 2025.

S. JAISANKAR, J. ARPUTHABALAN, S. SURESH, S. MANIKANDAN, L. MAYAVAN, S.K. BOHIDAR, ET AL. "INNOVATIVE COMPOSTING PROCESS FOR ENHANCING ORGANIC WASTE MANAGEMENT IN URBAN AREAS." OXIDATION COMMUNICATIONS, 2024, VOL 47, ISSUE 4, P870.

SHARMILA, J., **SURESH, S.** & CHAMUNDEESWARI, M. ACUTE TOXICOLOGY STUDY OF ORGANIC DYES-DEGRADED WATER ON ADULT ZEBRAFISH AS HUMAN MODEL FOR DIRECT UTILITY. *ENVIRON DEV SUSTAIN* (2024). HTTPS://DOI.ORG/10.1007/S10668-024-04710-6

SARAVANAN P, ANANDKUMAR S, SHARMILA J, CHAMUNDEESWARI M, **SURESH S** & NISHA P (2023) DEVELOPMENT AND CHARACTERIZATION OF DGEBA-APTES-ZRO_2 NANOCOMPOSITE COATINGS FOR ANTI-CORROSION AND ANTI-FOULING, INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, 28:6, 564-580, DOI: 10.1080/1023666X.2023.2254034

S. PHILIP RAJA, **S. SURESH**, N. PADMAMALINI, K. MANIMEKALAI, C. VENKATESWARAN, STRUCTURAL, AND MAGNETIC STUDIES OF A NOVEL HOMEMADE SPRAY PYROLYSIS SYNTHESIZED FE-DOPED CEO2 THIN FILMS, CHEMICAL PHYSICS IMPACT, VOLUME 7, 2023, 100274

SHARMILA J, SARAVANAN P, **SURESH S** & CHAMUNDEESWARI M, PHOTOCATALYTIC DEGRADATION OF REACTIVE DYES USING NATURAL PHOTO-SMART PIGMENT- A NOVEL APPROACH FOR WASTE WATER RE-USABILITY, ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, VOL. 30 (2023) PP. 69639–69650.

PHILIP RAJA S, JAYAMOORTHY K, DHANALEKSHMI K I, **SURESH S**, Mn_3O_4 NANOPARTICLES BEARING 5- AMINO-2-MERCAPTO BENZIMIDAZOLE MOIETY AS ANTIBACTERIAL AND ANTIFUNGAL AGENTS, JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, VOL. 40 (2022) 1-7.

NISHA P, **SURESH S**, SARAVANAN P, JAYAMOORTHY K, SUBASH B, PRAKASH S M, RAJAGOPALAN N R, RAVICHANDRAN C, EFFECT ON HYDROPHOBICITY AND ANTIMICROBIAL BEHAVIOR OF EPOXY RESIN DUE TO SILANE FUNCTIONALIZED TiO_2 AS NANOFILLERS, INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, VOL. 26, NO. 8 (2021), 668–681.

NISHA P, **SURESH S**, JAYAMOORTHY K, DHANALEKSHMI KI, RAVICHANDRAN C, SYNTHESIS, SPECTRAL, THERMAL STUDIES AND DIELECTRIC BEHAVIOR OF FUNCTIONALIZED TiO_2- LOADED DIGLYCIDYL EPOXY NANOCOMPOSITE FILM, POLYMER BULLETIN, 78, (2021) 5255–5274

KARTHIK C, **SURESH S**, SNEHA MIRULALINI G, AND KAVITHA S, A FTIR APPROACH OF GREEN SYNTHESIZED SILVER NANOPARTICLES BY OCIMUM SANCTUM AND OCIMUM GRATISSIMUM ON MUNG BEAN SEEDS, INORGANIC AND NANO-METAL CHEMISTRY, VOL. 50 ISSUE 8 (2020) 606-612.

SURESH S, JAYAMOORTHY K, KARTHIKEYAN S, SWITCH-ON FLUORESCENCE OF 5-AMINO-2-MERCAPTO BENZIMIDAZOLE BY Mn_3O_4 NANOPARTICLES: EXPERIMENTAL AND THEORETICAL APPROACH, JOURNAL OF LUMINESCENCE, 198 (2018) 28–33.

SAVITHA S, SRINIVASALU S, **SURESH S**, JAYAMOORTHY K, DISTRIBUTION OF HEAVY METALS IN THE MARINE SEDIMENTS OF VARIOUS SITES IN KARAICHALLI ISLAND, TUTICORIN, GULF OF MANNAR, INDIA, SILICON, 10 (4) (2018), 1419-1425.

SURESH S, NISHA P, SARAVANAN P, JAYAMOORTHY K, KARTHIKEYAN S, INVESTIGATION OF THE THERMAL AND DIELECTRIC BEHAVIOUR OF EPOXY NANO-HYBRIDS USING SILANE MODIFIED NANO ZnO, SILICON, 10 (4) (2018), 1291-1303.

SARAVANAN P, DURAIBABU D, JAYAMOORTHY K, **SURESH S**, ANANDA KUMAR S, TWIN APPLICATIONS OF TETRA-FUNCTIONAL EPOXY MONOMERS FOR ANTICORROSION AND ANTIFOULING STUDIES, SILICON, 10 (2) (2018), 555-565.

PANDI PRABHA S, JOHANNA RAJKUMAR, **SURESH S**, KARTHIKEYAN S, ANTIOSTEOPOROTIC EFFECT OF HYDRILLA VERTICILLATA AGAINST LEAD INDUCED DAMAGE IN BONE SAMPLES OF EDIBLE FISH LABEO ROHITA – AN FTIR APPROACH, MATERIAL SCIENCE AND ENGINEERING C, 90 (2018) 657–663.

SURESH S, SUBASH B, KARTHIKEYAN S, ELECTRICAL, OPTICAL AND PHOTOCATALYTIC PROPERTIES OF Ti-DOPED ZnO/ ZnO ENCAPSULATED AND Ti-DOPED ZnO NANOSPHERES, JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, 14 (2017) 1591–1600.

SURESH S, KARTHIKEYAN S, OPTICAL, MAGNETIC AND PHOTOCATALYTIC PROPERTIES OF MAGNETICALLY SEPARABLE Fe_3O_4 DOPED ZnO AND PRISTINE ZnO NANOSPHERES, JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, 13 (2016) 2049–2057.

SURESH S, JAYAMOORTHY K, KARTHIKEYAN S, FTIR AND MULTIVARIATE ANALYSIS TO STUDY THE EFFECT OF BULK AND NANO COPPER OXIDE ON PEANUT PLANT LEAVES, JOURNAL OF SCIENCE: ADVANCED MATERIALS AND DEVICES, 1 (2016) 343 – 350.

SURESH S, JAYAMOORTHY K, KARTHIKEYAN S, FLUORESCENCE SENSING OF POTENTIAL NLO MATERIAL BY BUNSENITE NiO NANO FLAKES: ROOM TEMPERATURE MAGNETIC STUDIES, SENSORS AND ACTUATORS B, 232 (2016) 269–275.

SURESH S, SARAVANAN P, JAYAMOORTHY K, ANANDA KUMAR S, KARTHIKEYAN S, DEVELOPMENT OF SILANE GRAFTED ZnO CORE SHELL NANOPARTICLES LOADED DIGLYCIDYL EPOXY NANOCOMPOSITES FILM FOR ANTIMICROBIAL APPLICATIONS, MATERIAL SCIENCE AND ENGINEERING C, 64 (2016) 286–292.

SURESH S, JAYAMOORTHY K, SARAVANAN P, KARTHIKEYAN S, SWITCH-OFF FLUORESCENCE OF 5-AMINO- 2-MERCAPTO BENZIMIDAZOLE WITH Ag_3O_4 NANOPARTICLES: EXPERIMENTAL AND THEORETICAL INVESTIGATIONS, SENSORS AND ACTUATORS B, 225 (2016) 463–468.

SURESH S, JAYAMOORTHY K, SARAVANAN P, KARTHIKEYAN S, COMPARISON OF ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF 5-AMINO-2-MERCAPTO BENZIMIDAZOLE AND FUNCTIONALIZED NiO NANOPARTICLES, KARBALA INTERNATIONAL JOURNAL OF MODERN SCIENCE, 1 (2016) 188 – 195.

SURESH S, JAYAMOORTHY K, SARAVANAN P, KARTHIKEYAN S, COMPARISON OF ANTIBACTERIAL AND ANTIFUNGAL ACTIVITY OF 5-AMINO-2-MERCAPTO BENZIMIDAZOLE AND FUNCTIONALIZED Ag_3O_4 NANOPARTICLES, KARBALA INTERNATIONAL JOURNAL OF MODERN SCIENCE, 2 (2016) 129 – 137.

SURESH S, KARTHIKEYAN S, JAYAMOORTHY K, SPECTRAL INVESTIGATIONS TO THE EFFECT OF BULK AND NANO ZnO ON PEANUT PLANT LEAVES, KARBALA INTERNATIONAL JOURNAL OF MODERN SCIENCE, 2 (2016) 69 – 77.

SURESH S, KARTHIKEYAN S, JAYAMOORTHY K, EFFECT OF BULK AND NANO Fe_2O_3 PARTICLES ON PEANUT PLANT LEAVES BY FOURIER TRANSFORM INFRARED SPECTRAL STUDIES, JOURNAL OF ADVANCED RESEARCH, 7 (2016) 739-747.

KARTHIKEYAN S, **SURESH S**, EVALUTION OF GROUND WATER QUALITY DUE TO IMPACT OF LOCAL INDUSTRIES IN AND AROUND CHIDAMBARAM TOWN, TAMILNADU, INDIA, JOURNAL OF WATER & WELLNESS, VOL. 1, NUM. 2, (2012) 1-6.

LIST OF INTERNATIONAL CONFERENCE PRESENTED

PHILIP RAJA S, SARAVANAN P, **SURESH S**, COMBINED EFFECT OF CuO AND ZnO NANOPARTICLES ON PEANUT PLANT LEAVES BY FTIR AND XRF SPECTRAL STUDIES, INTERNATIONAL CONFERENCE ON SUSTAINABLE SCIENTIFIC ADVANCEMENTS (ICSSA - 19) 22ND & 23RD FEBRUARY 2019, PG & RESEARCH DEPARTMENT OF BIOTECHNOLOGY, PHYSICS AND CHEMISTRY, SRI VINAYAGA COLLEGE OF ARTS & SCIENCE, ULUNDURPET - 606 107, TAMIL NADU, INDIA.

NISHA P, **SURESH S**, JAYAMOORTHY K, RAVICHANDRAN C, "FABRICATION OF COST EFFECTIVE ECOFRIENDLY AND SURFACE MODIFIED METAL NANOPARTICLES FOR HIGH VOLTAGE APPLICATION", INTERNATIONAL CONFERENCE ON RECENT TRENDS IN CHEMISTRY (ICRTC - 2019), 10TH JANUARY 2019, DR. R. K. SHANMUGAM COLLEGE OF ARTS & SCIENCE, INDILI, KALLAKURICHI.

SARAVANAN P, JAYAMOORTHY K, **SURESH S**, "INVESTIGATION OF THE THERMAL, DIELECTRIC, ANTICORROSION, ANTIMICROBIAL AND ANTIFOULING BEHAVIOR OF EPOXY NANOHYBRIDS", ADROIT CONFERENCE ON EMERGING TRENDS IN CHEMISTRY, (ACETIC- 2K18), JEPPIAAR SRR ENGINEERING COLLEGE ON 2ND AUGUST 2018.

NISHA P, SARAVANAN P, JAYAMOORTHY K, RAVICHANDRAN C, **SURESH S**, "STUDIES ON THERMAL AND DIELECTRIC PROPERTIES OF EPOXY NANOCOMPOSITES AT DIFFERENT TEMPERATURES" ROLE OF ROBOTICS ENGINEERING IN SCIENCE AND TECHNOLOGY (ICONSET 18), 23RD - 24TH MARCH 2018, JEPPIAAR ENGINEERING COLLEGE, CHENNAI.

SURESH S, KARTHIKEYAN S, "SPECTROSCOPIC INVESTIGATION OF PEANUT PLANT LEAVES UNDER FE2O3 NANOPARTICLE STRESS BY PRE-SOAKING METHOD", "INTERNATIONAL CONFERENCE ON GREEN TECHNOLOGY FOR ENVIRONMENTAL POLLUTION PREVENTION AND CONTROL (ICGTEPC 2014)" DURING 27 TO 29 TH, SEPTEMBER2014, DEPARTMENT OF CHEMICAL ENGINEERING, NATIONAL INSTITUTE OF TECHNOLOGY TIRUCHIRAPPALLI (NITT), INDIA

SURESH S, KARTHIKEYAN S, "SPECTROSCOPIC INVESTIGATION OF SESAME PLANT LEAVES UNDER COPPER STRESS", INTERNATIONAL CONFERENCE ON GOBAL ENVIRONMENT AND ITS SUSTAINABILITY: IMPLICATIONS AND STRATEGIES" 7TH NOVEMBER 2010, RKM VIVEKANANDA COLLEGE, MYLAPORE, CHENNAI, INDIA.

SURESH S, KARTHIKEYAN S, 'CHARACTERIZATION OF SESAMOL AND ITS CONTENTS IN SESAME SEED USING FOURIER TRANSFORM INFRARED SPECTROSCOPY', "INTERNATIONAL CONFERENCE ON RECENT FRONTIERS IN APPLIED SPECTROSCOPY" (ICOFRAS-2010) DURING SEPT. 22-24, 2010 IN THE DEPARTMENT OF PHYSICS, ANNAMALAI UNIVERSITY.

LIST OF NATIONAL CONFERENCE PRESENTED

SURESH S, JAYAMOORTHY K, "FT-IR SPECTRAL STUDIES AND MULTIVARIATE ANALYSIS TO ACCESS THE EFFECT OF BULK AND NANO METAL OXIDE ON PEANUT SEEDS", NATIONAL CONFERENCE ON HYBRID MATERIALS AND MEDICAL APPLICATIONS (NCHMMA-2019), HELD ON 26TH SEPTEMBER 2019, DEPARTMENT OF PHYSICS, THEIVANAI AMMAL COLLEGE FOR WOMEN, VILLUPURAM, TAMILNADU, INDIA.

JAYAMOORTHY K, SARAVANAN P, SUBASH B, **SURESH S**, RAJAGOPALAN NR, "BINDING INTERACTION OF SUBSTITUTED BENZIMIDAZOLE WITH ZNO NANOPARTICLES", NATIONAL CONFERENCE ON HYBRID MATERIALS AND MEDICAL APPLICATIONS (NCHMMA- 2019), HELD ON 26TH SEPTEMBER 2019,

DEPARTMENT OF PHYSICS, THEIVANAI AMMAL COLLEGE FOR WOMEN, VILLUPURAM, TAMILNADU, INDIA.

SURESH S, JAYAMOORTHY K, FT-IR SPECTRAL STUDIES OF PEANUT SEEDS STRESSED WITH ZnO BULK AND NANOPARTICLES, NATIONAL CONFERENCE ON FUNCTIONAL MATERIALS AND ITS APPLICATIONS (NCFMA-2018), 28TH FEBRUARY & 1ST MARCH 2018, DEPARTMENT OF CHEMISTRY, VELS INSTITUTE OF SCIENCE, TECHNOLOGY & ADVANCED STUDIES, CHENNAI-600117, INDIA.

JAYAMOORTHY K, SUBASH B, SARAVANAN P, RAJAGOPALAN NR, **SURESH S**, BINDING INTERACTION OF (1-4-BROMOBENZYL)-2-(4-BROMOPHENYL)-1H-BENZIMIDAZOLE) WITH Fe_2O_3 NANOPARTICLES, NATIONAL CONFERENCE ON FUNCTIONAL MATERIALS AND ITS APPLICATIONS (NCFMA 2018), 28TH FEBRUARY & 1ST MARCH 2018, DEPARTMENT OF CHEMISTRY, VELS INSTITUTE OF SCIENCE, TECHNOLOGY AND ADVANCED STUDIES, CHENNAI – 600117.

JAYAMOORTHY K, **SURESH S**, BINDING INTERACTION OF BENZIMIDAZOLE WITH ZnO NANOPARTICLES – ABSORPTION AND FLUORESCENCE SPECTRAL STUDIES, NATIONAL CONFERENCE ON PROCESSING AND FABRICATION OF ADVANCED MATERIALS (NCPFAM-2018), 1-2ND MARCH 2018, DEPARTMENT OF PHYSICS, SSN COLLEGE OF ENGINEERING, KALAVAKKAM-603110, INDIA.

SARAVANAN P, JAYAMOORTHY K, **SURESH S** "STUDIES ON ELECTRICAL AND DIELECTRIC PROPERTIES OF EPOXY/EXPANDED ZRO2 COMPOSITES" NATIONAL CONFERENCE ON PROCESSING AND FABRICATION OF ADVANCED MATERIALS (NCPFAM-2018), SSN COLLEGE OF ENGINEERING, KALAVAKKAM DURING 1-2 MARCH 2018.

SURESH S, JAYAMOORTHY K, "FTIR AND XRF ANALYSIS OF PEANUT PLANT STRESSED WITH COMBINED EFFECT OF ZNO -FE2O3 NANOPARTICLES", "NATIONAL LEVEL SEMINAR ON FUNCTIONAL MATERIALS" (NSFM-2018), 9TH FEBRUARY 2018, DEPARTMENT OF CHEMISTRY, IMMACULATE COLLEGE FOR WOMEN, VILLUPURAM-606402 INDIA.

JAYAMOORTHY K, SARAVANAN P, **SURESH S**, RAJAGOPALAN NR, SUBASH B, "BINDING INTERACTION OF 2-ARYL BENZIMIDAZOLE DERIVATIVE WITH RUTILE TIO2 NANOPARTICLES", NATIONAL LEVEL SEMINAR ON FUNCTIONAL MATERIALS (NSFM – 2018), 9TH FEBRUARY 2018, DEPARTMENT OF CHEMISTRY, IMMACULATE COLLEGE FOR WOMEN, VIRIYUR – 606 402.

SARAVANAN P, **SURESH S**, JAYAMOORTHY K, EPOXY/GRAPHENE OXIDE NANOCOMPOSITE COATINGS – PROCESSING, PROPERTIES AND APPLICATIONS, NATIONAL CONFERENCE ON ADVANCES IN FUNCTIONAL MATERIALS (NCAFM 2017), 5 AUGUST 2017, DEPARTMENT OF CHEMISTRY ST. JOSEPH'S COLLEGE OF ENGINEERING CHENNAI-600119 INDIA.

SAVITHA S, SRINIVASALU S, **SURESH S**, JAYAMOORTHY K, BHUVANA N, TRACE METAL POLLUTION ASSESSMENT IN THE SEDIMENTS OF PULIVINICHALLI ISLAND OF TUTICORIN, THE GULF OF MANNAR, THE SOUTHEAST COAST OF INDIA, NATIONAL CONFERENCE ON ADVANCES IN FUNCTIONAL MATERIALS (NCAFM 2017), 5 AUGUST 2017, DEPARTMENT OF CHEMISTRY ST. JOSEPH'S COLLEGE OF ENGINEERING CHENNAI-600119 INDIA.

SURESH S, SARAVANAN P, ANTAGONISTIC EFFECT OF CUO AND FE2O3 NANOPARTICLES ON PEANUT LEAVES BY FTIR AND XRF SPECTRAL STUDIES, NATIONAL CONFERENCE ON ADVANCES IN FUNCTIONAL MATERIALS (NCAFM 2017), 5 AUGUST 2017, DEPARTMENT OF CHEMISTRY ST. JOSEPH'S COLLEGE OF ENGINEERING CHENNAI-600119 INDIA.

SARAVANAN P, JAYAMOORTHY K, **SURESH S**, DEVELOPMENT OF ENVIRONMENTALLY ACCEPTABLE EPOXY NANO-COMPOSITE COATINGS FOR CORROSION AND FOULING RESISTANCE, RECENT ADVANCES IN MATERIAL SCIENCE (RAMS-2017), JANUARY 2017, PG AND RESEARCH DEPARTMENT OF CHEMISTRY, IMMACULATE COLLEGE FOR WOMEN, VIRIUR.

SARAVANAN P, JAYAMOORTHY K, SUBASH B, **SURESH S**, INCORPORATION OF ZOSTERIC ACID AND CAPSAICIN INTO AMINE FUNCTIONALIZED NANO ZEOLITE EPOXY COATINGS - PROTECTION AGAINST CORROSION AND BIOFOULING, RECENT ADVANCES IN MATERIAL SCIENCE (RAMS-2017), JANUARY 2017, PG AND RESEARCH DEPARTMENT OF CHEMISTRY, IMMACULATE COLLEGE FOR WOMEN, VIRIUR.

SURESH S, JAYAMOORTHY K, FT-IR SPECTRAL STUDIES AND MULTIVARIATE ANALYSIS TO ACCESS THE EFFECT OF BULK AND NANO Fe_2O_3 PARTICLES ON PEANUT SEEDS, RECENT ADVANCES IN MATERIAL SCIENCE (RAMS-2017), JANUARY 2017, PG AND RESEARCH DEPARTMENT OF CHEMISTRY, IMMACULATE COLLEGE FOR WOMEN, VIRIUR.

SURESH S, JAYAMOORTHY K, COMBINED EFFECT OF ZnO AND Fe_2O_3 NANOPARTICLES ON PEANUT LEAVES STUDIED BY FTIR SPECTRAL STUDIES AND PCA ANALYSIS, NATIONAL SEMINAR ENTITLED "NEW TRENDS IN CHEMISTRY (NTC-2016)" ON 21ST & 22ND OCTOBER 2016, DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY, CHIDAMBARAM-608002, INDIA.

SURESH S, KARTHIKEYAN S, COMBINED EFFECT OF NANOSCALE COPPER AND ZINC OXIDES ON PRESOAKED PEANUT SEEDS AND POTENTIAL VARIATION IN LEAF BY SPECTRAL STUDIES, NATIONAL CONFERENCE ON RECENT TRENDS IN CHEMICAL SCIENCES FOR ENERGY AND ENVIRONMENT, 1ST AND 2ND APRIL 2016, PG AND RESEARCH DEPARTMENT OF CHEMISTRY, THANTHAI HANS ROEVER COLLEGE, (AUTONOMOUS), PERAMBALUR – 621 212, TAMILNADU.

SURESH S, JAYAMOORTHY K, KARTHIKEYAN S, FT-IR AND CHEMOMETRICS INVESTIGATION TO STUDY THE EFFECT OF BULK AND NANO COPPER OXIDE ON PEANUT SEEDS GROWN BY SEED PRIMING METHOD,RECENT TRENDS IN ORGANIC SYNTHESIS AND CHEMICAL BIOLOGY (RTSB - 2015), OCTOBER 9-10, 2015, DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY, ANNAMALAINAGAR - 608 002 TAMIL NADU, INDIA.

SURESH S, KARTHIKEYAN S, FT-IR AND CHEMOMETRICS INVESTIGATION TO STUDY THE EFFECT OF BULK AND NANO ZINC OXIDE ON PEANUT SEEDS GROWN BY SEED PRIMING METHOD, RECENT ADVANCES ON LUMINESCENT MATERIALS (RALM 2015), 23RD - 24TH JANUARY 2015, DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY, ANNAMALAINAGAR - 608 002 TAMIL NADU, INDIA.

SURESH S, KARTHIKEYAN S, FT-IR INVESTIGATION OF BULK AND NANO IRON OXIDE STRESS IN GROUNDNUT LEAVES BY PRE-SOWING METHOD, NATIONAL SEMINAR ON "RECENT ADVANCES ON LUMINESCENT MATERIALS" (RALM-2015), 23RD AND 24TH JANUARY 2015, DEPARTMENT OF CHEMISTRY, ANNAMALAI UNIVERSITY, CHIDAMBARAM – 608002, TAMILNADU, INDIA.

SKILLS

- Experience in working with various scientific software like Origin, SPSS, Gaussian, etc.
- Expertise in synthesizing and analyzing nanoparticles with various instrumentational techniques
- Excellent skills in teaching various topics in physics and its applications
- Having great hands in applying nanoparticles in various fields
- A good team player who actively participate in all academic and nonacademic activities

ACTIVITIES

I have a great passion in teaching through various innovative methods. Also have a great desire to explore my research activities in various fields. Especially application of nanomaterials in agriculture and polymer industries is the main focus of my research work.

REFERENCES

DR. KUMAR PALANISAMY, RESEARCH HEAD, INTERCOMET S.L. MADRID, SPAIN. EMAIL: KUMARMP82@GMAIL.COM MOBILE NO: +34 658019121

DR. S. KARTHIKEYAN, DEPARTMENT OF PHYSICS, DR. AMBEDKAR GOVERNMENT ARTS COLLEGE, CHENNAI 600039, TAMILNADU, INDIA. EMAIL: PHYSICSKARTHIK@GMAIL.COM MOBILE NO: +91-7395992195