### **CURRICULUM YITAE**

### Dr. S. KALAISELVAN

Assistant Professor Department of Chemistry M.Kumarasamy College of Engineering Karur 639113 Tamilnadu, India Cell: 8754073142

EMAIL ID: <u>kalaichem82@gmail.com</u>

skhicet@gmail.com

### RESEARCH PROFILE

YouTube Channel Link:

https://youtube.com/@SKWorldlyWisdom?si=Jn\_70GwS1NPvvui5

Google Scholar https://scholar.google.com/citations?user=6 g8I7oAAAAJ&hl=en

Research gate <a href="https://www.researchgate.net/profile/S\_Kalaiselvan">https://www.researchgate.net/profile/S\_Kalaiselvan</a>

ORCID https://orcid.org/0000-0002-0792-2142

Mendeley <a href="https://www.mendeley.com/profiles/kalaiselvan-s/">https://www.mendeley.com/profiles/kalaiselvan-s/</a>

Publons https://publons.com/author/1527746/dr-s-kalaiselvan#profile

Researcher ID <a href="https://publons.com/researcher/1527746/dr-s-kalaiselvan/">https://publons.com/researcher/1527746/dr-s-kalaiselvan/</a>

Scopus ID <a href="https://www.scopus.com/authid/detail.uri?authorId=56496947400">https://www.scopus.com/authid/detail.uri?authorId=56496947400</a>

LINKEDIN: <a href="mailto:linkedin.com/in/dr-kalaiselvan-shanmugam-b99480134">linkedin.com/in/dr-kalaiselvan-shanmugam-b99480134</a>

### **CAREER OBJECTIVE**

Aspiring to get a challenging position in an organization like your where I could demonstrate my skills and abilities for the betterment of the organization and for my professional growth.

### PERSONAL DETAILS

Name : **Dr S Kalaiselvan** 

Date of Birth & Age : 21-03-1982 & 39

Gender : Male

Father name : Mr. N Shanmugam

Mother name : Mrs. S Baby

Nationality / Religion : Indian / Hindu

Passport Number : R1756560 (Valid:22/06/2027)

Blood Group :  $B^{+Ve}$ 

Languages Known : Tamil, English and Telugu

Address : 2/233, Palani Road

Kolumam (Po) Madathukulam

Tirupur

Pincode – 642 204

### **EDUCATIONAL QUALIFICATION**

COURSE	INSTITUTION	UNIVERSITY	YEAR OF	CLASS
			PASSING	OBTAINED
B.Sc	Government.Arts	Bharathiyar		
(Chemistry)	College,	University,	April-2002	I Class
	Udumalpet.	Coimbatore.		
M.Sc	Gandhigram	Gandhigram		
(Chemistry)	Rural University,	Rural University,	June-2006	I Class
	Dindigul	Dindigul		
M.Phil	Madurai Kamaraj	Madurai		
(Chemistry)	University,	Kamaraj	April-2008	Commended
	Madurai	University,	_	
		Madurai		
Ph.D	Anna University,	Anna University,		Highly
(Chemistry)	Chennai	Chennai	December -2016	Commended

### **ACADEMIC EXPERIENCE**

- ❖ Assistant Professor: **M.Kumarasamy College of Engineering, Karur** from Feb 2021 to Till now Department of Chemistry
- ❖ Assistant Professor: **SNS College of Technology Coimbatore** from August 2017 to march 2020 Department of Chemistry
- ❖ Assistant Professor: **Hindusthan College of Engineering & Technology Coimbatore** from March 2010 to April 2017:: Department of Chemistry
- ❖ Lecturer: **Sankara Institute of Technology Coimbatore** August 2008 to July 2009 Department of Chemistry
- ❖ Lecturer: **Rudhraveni Muthuswamy Polytechnic College Udumalpet** August 2006 to April 2008 :: Department of Chemistry

### **RESPONSIBILITY HELD**

- **Exam Cell Coordinator** (AU: 2012-2017 & Autonomous (Internal): 2017-2020)
- **Research Coordinator** (2018-2020)
- **Lab Incharge** (2007-2009 & 2015-2017)
- **Department Incharge** (2007-2008)

### PROJECT PROFILE

- Synthesis, Characteristics and Antimicrobial Studies of Triazole and Related Compounds and Their Spectral Evidence.
- CNTs Synthesis from Plant derived oils & Study of effect of parameters with its applications in DSSC

- Plastic waste into pavers brick
- ❖ Biodiesel from used cooking oil utilizing hybrid catalyst

### PROFESSIONAL MEMBERSHIP

- ❖ Life Member Of Association of Chemistry Teachers **India** (**LM.No:762**)
- Fellow Member in International Society for Research and Development –
   United Kingdom (Membership ID: F3140900977)
- ❖ Fellow Member in International Scientific Research Organization for Science, Engineering and Technology (ISROSET)
- ❖ Active Member in Chemical Consultants Network United Kingdom (CCN) (UI 44481568)
- ❖ Life Member in International Economics Development & Research Hong Kong (M.No: 90081158)
- ❖ Member in International Journal of Development and Sustainability (IJDS) Membership ID : M008472.
- Associate Member In International Association Of Innovation Professionals –
   United States (No: 53698539)
- ❖ Associate member of Euro science **France**
- ❖ Member in International Nano Science Community **Hungary**
- ❖ Senior Member in Asia Society of Researchers Hong Kong (No: R218040901)
- Member in International Association of Engineers (IAENG) (No: 212903)
   Hong Kong
- Member in International Association of Journals and Conferences (IAJC)
  Membership ID: 8754073142
- ❖ Senior Member in Institute of Research Engineers and Doctors- IRED Membership ID: SNM10100059293
- ❖ Member in i-Explore International Research Journal Consortium Membership ID: 14269
- ❖ Member in International Journal of Engineering & Techniques Membership ID: IJET1729
- **❖** Member in IFERP Chennai **Membership ID: PM8406082**

### REVIEWER /EDITORIAL BOARD MEMBER IN JOURNALS

- Materials Science Poland
- ❖ Scripta Materilia & Materials Science Today Proceedings (Elsevier)
- Silicon (Springer) Netherland
- ❖ World Academy of Science, Engineering and Technology
- Materials Science Research India
- International Journal of Engineering and Techniques

- ❖ International Journal of Creative Research Thoughts
- ❖ Associate Editor in Scholars International Journal of Chemistry and Material Sciences
- Journal of peer scientist
- Elixir International Journal
- ❖ Global Journal (USA)
- Journal of Progressive Research in Modern Physics and Chemistry
- Journal of American Academic Research
- Indian Journal of Pharmacology
- ❖ International Journal of Engineering Research & Technology

### AWARDS / HONOURS ACHIEVED

- ❖ Innovative Scientific Research & Dedicated Academician (Chemistry)-Malaysia 2018
- ❖ Young Scientist award 2018 From IRDP Group of Journals, Chennai
- **Best Reviewer** of the Year 2018, Materials Science Research
- ❖ Best Citizens of India International Publishing House, New Delhi
- + Human Rights and Social Justice Mission District Chief Co-coordinator (Tirupur)
- ❖ Best Assistant Professor of the Year (Chemistry)-2020 by DHS Foundation, New Delhi in collaboration with CAMPBELL University, North Carolina, USA

## PAPERS PRESENTED IN NATIONAL / INTERNATIONAL CONFERENCE

- ❖ Karthikeyan S., Mahalingam P., Mageswari S., **Kalaiselvan S** & Angulakshmi V.S., "Carbon Nanotubes from Unconventional Resources An Environment Friendly Nanotechnology" 4<sup>th</sup> International Congress of Chemistry and Environment held at Thailand from 21 to 23 Jan. 2010.
- ❖ Karthikeyan S., **Kalaiselvan S**., Angulakshmi V.S & Mageswari S., "Synthesis and Characterization of Vapour Grown Carbon Fibers (VGCFs) and Its Applications of Polymer Composites", International Conference on Innovative Research in Engineering and Technology (ICIRET -2010) held at Park College of Engineering and Technology Coimbatore from 12 to 14 Aug. 2010. (Oral Presentation)
- ❖ Karthikeyan S., **Kalaiselvan S.**, & Angulakshmi V.S "Synthesis and Characterization of Multiwalled Carbon Nanotubes (MWNTs) from Unconventional Resources" International Conference on Nanomaterials and Nanotechnology (NANO-2010) held at KSR College of Engineering and Technology Thiruchengode from 13 to 16 Dec. 2010. (Oral Presentation)
- ❖ Karthikeyan S., **Kalaiselvan S**., Mageswari S., & Angulakshmi V.S "Synthesis and Characterization of Multiwalled Carbon Nanotubes (MWNTs) from Renewable Energy Resources and Its Adsorption Properties" National Conference on Recent Applications of Nanomaterials in Chemistry & Environment Research (RANCER 2011) held at Kongu Engineering College Erode from 18 to 19 Feb. 2011. (Oral Presentation)

- ❖ Kalaiselvan S., Karthikeyan S., Mageswari S & Angulakshmi V.S "Multiwalled carbon nanotubes produced by Spray Pyrolysis using *Oryza Sativa* oil" National Conference on ADVANCES IN MATERIAL SYNTHESIS (AIMS-2013) held at Sree Sevugan Annamalai College, Devakottai-03 (Oral Presentation)
- ❖ Karthikeyan S & Kalaiselvan S "Morphology and structure of Multiwalled carbon nanotubes by catalytic Spray Pyrolysis using *Madhuca longifolia* oil as a carbon source" National conference on NANOMATERIALS CHARACTERIZATION held on 12<sup>th</sup> of July- 2013 at Sri Ramakrishna Arts & Science College, Coimbatore-641022. (Poster Presentation)
- ❖ Kalaiselvan S., Babu Rajendran V & Karthikeyan S "Growth of Bamboo Like Carbon Nanotubes from Brassica Junceas Natural Precursor" International Conference on Chemical and Environmental Research (ICCER-2014) held at JMC, Trichy-620020. (Poster Presentation)
- ❖ Kalaiselvan S & Karthikeyan S "Production and characterization of Carbon Nanotubes from methyl esters of *Oryza Sativa* oil and its applications in composites" International Conference on Chemical and Environmental Research (ICCER-2014) held at JMC, Trichy-620020. (Oral Presentation)
- ❖ Kalaiselvan, S, Parthiban, N & Karthikeyan, S 2015, 'Synthesis and Characterization of Multiwalled Carbon Nanotubes (MWNTs) by Spray Pyrolysis from Plant Derived Hydrocabon: An Efficient Renewable Precursor', International Conference on Nanomaterials and Nanotechnology (NANO-2015) held at KSR College of Engineering and Technology Thiruchengode from 07 to 10 Dec. 2015.
- ❖ Kalaiselvan, S, Jothivenkatachallam, K & Karthikeyan, S 2016, 'The Effect of Synthesis Temperature on the Growth of Carbon nanotubes from Eco-friendly Plant derived hydrocarbon', National Conference on Nanotechnology − Energizing The Future held at PSGR Krishnammal College for Women Coimbatore-04 On 7th & 8th Jan. 2016.
- **★ Kalaiselvan, S**, Jothivenkatachalam, K & Karthikeyan, S 2016, 'Recent Trends in the Synthesis and Application of Carbon Nanotubes A Concise Review' INTCOMM-2016 held at Hindusthan College of Engineering and Technology Coimbatore-32 on 1st & 2nd February 2016.
- ❖ Kalaiselvan, S, Jothivenkatachalam, K, Mabelhebsuba, K & Karthikeyan, S 2016, 'Effect of Reaction Temperature On the Yield and Diameter of Multi-Walled Carbon Nanotubes Synthesized from Methyl Esters of Moringa Oliefera Oil Over Alumina Supported BiMetallic Catalyst' International Conference on Materials, Design and Manufacturing Process ICMDM-2016 held at College of Engineering Guindy, Anna University Chennai from 17 to 19 February. 2016.

- ❖ Kalaiselvan, S, Jothivenkatachalam & Karthikeyan, S 2016, 'A Brief Review on Recent Development in the Production and Applications of Carbon nanotubes' National Conference on Research Advances in Materials Science and Applications" (RAMSA'16) held at Anna University, BIT Campus on 19th & 20th August 2016.
- ❖ Kalaiselvan, S & Babu rajendran, A 'Growth Of Carbon Nanotubes From Plant Derived Hydrocarbon – A Renewable Carbon Source' AOP- 2017 Anna University, Trichy
- ❖ Babu rajendran, A & **Kalaiselvan**, **S**, 'Adsorption of Acid dye (Acid Blue1) by Activated carbon from Agricultural solid waste Leucona leucocephala seed shell waste' AOP- 2017 Anna University, Trichy
- ❖ Kalaiselvan, S "Carbon nanotubes from plant based hydrocarbon and its applications in solar cells" National conference on Recent Trents and Advances in Greener Synthesis (RTAGS 2018)
- ❖ Babu rajendran, A & Kalaiselvan, S "Synthesis and applications of carbon nanotubes" National conference on Recent Trents and Advances in Greener Synthesis (RTAGS 2018)
- ❖ Manjuladevi M & Kalaiselvan S "Cations of UV-Visible and IR Spectroscopy in effluent Treatment" International Conference on Innovations in Chemcical Science 2019
- ❖ Kalaiselvan S, Multi-walled Carbon nanotubes Reinforced Composites for Biomedical Applications, International Conference on Emerging Trends in Materials for Energy and Biological Applications (ICEMEBA-2020)
- ❖ Kalaiselvan S, Synthesis and DSSC applications of carbon nanotube from banana peel activated carbon mixed with used cooking oil, International Conference on Advanced Nanomaterials Cheettinad College of Engineering & Technology, Cheettinad College of Engineering & Technology
- ❖ Kalaiselvan S, Synthesis and Applications of Advanced carbon Materials in International Conference on Materials And Mathematical Sciences (ICMMS-2020), Organized by School of Advanced Sciences, Kalasalingam Academy of Research and Education
- ❖ Lawrence Justin A, Padmavathi R & Kalaiselvan S Study of the Physico Chemical Properties of Treated Water from Coimbatore Lake Using Ecobiosorbent International Conference on Physics and Chemistry of Materials in Novel Engineering Applications: PCM2020, Kumaraguru College of Technology, Coimbatore
- ❖ Attended & Presented Virtual Conference A Virtual Universal Conference on Multidisciplinary Research & Innovation organized by DHS FOUNDATION, New Delhi, INDIA in collaboration with CAMPBELL UNIVERSITY, North Carolina, USA

- ❖ Presented Paper Polymer Nanocomposites Towards Multidimensionality in the Two days International Virtual Conference on Chemical and Environmental Sciences organized by the Department of Chemistry, SPIHER, Chennai on 11th and 12th November2020
- ❖ Simplistic Production of Multi-Walled Carbon nanotubes from Greenery Hydrocarbon Source for Water Treatment Purpose at International Conference on Green Materials and Renewable Energy (ICGMRE) Organized by Department of Applied Chemistry, Sri Venkateshwara College of Engineering, Chennai
- ❖ Exploitation and Assessment of Eco-biosorbent for Removal Efficiency Using Underground Water at International Conference on Green Materials and Renewable Energy (ICGMRE) Organized by Department of Applied Chemistry, Sri Venkateshwara College of Engineering, Chennai
- ❖ Optimization of Multi-Walled Carbon Nanotubes Fabrication Using Genetic Algorithm (GA) and Response Surface Methodology (RSM) at International Conference on Green Materials and Renewable Energy (ICGMRE) Organized by Department of Applied Chemistry, Sri Venkateshwara College of Engineering, Chennai

# PAPERS PUBLISHED IN REPUTED (INTERNATIONAL) JOURNALS

- Karthikeyan, S, Kalaiselvan, S, Manorangitham, D & Maragathamani, D 2013, 'Morphology and Structural Studies Of Multi-Walled Carbon nanotubes By Spray Pyrolysis Using Madhuca Longifolia Oil', J.Environ.Nanotechnol. 2(4), 15-20 (2013). <a href="http://dx.doi.10.13074/jent.2013.12.132040">http://dx.doi.10.13074/jent.2013.12.132040</a>.
- **❖ Kalaiselvan, S**, Karthik, M, Vladimir, R & Karthikeyan, S 2014, 'Growth of Bamboo Like Carbon Nanotubes from Brassica Junceas Natural Precursor', **Journal of Environ.Nanotechnol.**, vol.3, no.2, pp. 92-100.
- **★ Kalaiselvan, S,** Anitha, K, Shanthi, P, Syed Shabudeen, PS & Karthikeyan, S 2014, 'Morphology of Entangled Multiwalled carbon Nanotubes by catalytic Spray Pyrolysis using *Madhuca longifolia* oil as a precursor', **Rasayan Journal of Chemistry**, vol.7, no.4, pp 333-339.
- ❖ Mageswari, S, Kalaiselvan, S, Syed Shabudeen, PS, Sivakumar, N & Karthikeyan, S 2014, 'Optimization of growth temperature of multiwalled carbon nanotubes fabricated by chemical vapour deposition and their application for arsenic removal', Int. Journal of Material science Poland, Springer, vol. 32, no. 4, pp 709-718.

- **★ Kalaiselvan, S,** Gopal, K & Karthikeyan, S 2016, 'Synthesis and characterization of multiwalled carbon nanotubes using Brassica Juncea oil as carbon source', **Carbon Sci. Tech.,** vol. 8, no. 1, pp. 25-31
- **★ Kalaiselvan, S,** Karthikeyan, S & Manivannan, G 2015, 'Growth and Structural Studies of Carbon nanotube From Unconventional Natural Precursor by Spray Pyrolysis Approach', **International Journal of Applied Engineering Research**, vol. 10, no. 21, pp. 242197-42201.
- **★ Kalaiselvan, S**, Jothivenkatachallam, K & Karthikeyan, S 2016, 'The Effect of Catalyst composition on the Growth of Multi-walled Carbon nanotubes from Methyl esters of Oryza sativa oil', **J. Environ.** Nanotechnol., vol. 5, no. 1, pp. 33-38.
- **★ Kalaiselvan, S**, Angulakshmi, V.S, Mageswari, S & Karthikeyan, S Carbon nanotubes from plant derived hydrocarbon an Efficient renewable precursor, **J. Environ. Nanotechnol.**, Volume 7, No. 1 pp. 41-47
- **★ Kalaiselvan, S,** Balachandran, K, Karthikeyan, S & Venckatesh, R 'Renewable precursor based MWCNTs synthesized by spray pyrolysis method for DSSC application', **Silicon-Springer** (2016). doi:10.1007/s12633-016-9419.
- ❖ Angulakshmi, V.S, Mageswari, S, Kalaiselvan, S, & Karthikeyan, S Application of Box Behnken design to optimize the reaction conditions on the synthesis of Multiwalled Carbon Nanotubes, J. Environ. Nanotechnol., Volume 7, No. 1 pp. 30-36
- ❖ J Manivannan S Kalaiselvan & N Velmani Comparative Study of Polyol with Varying Hydroxyl Values in Polyurethane Coatings, International Journal for Research in Engineering Application & Management, Volume 04, No. 7 pp 74-77, 2018
- ❖ S. Kalaiselvan N Mathan Kumar & J Manivannan Production of Multilayered Nanostructure from Zingiber Officinale by Spray Pyrolysis Method, Global Journal of Science Frontier Research: B Chemistry, Volume 18, No 03, 2018.
- ❖ S. Kalaiselvan & A, Babu Rajendran Carbon nanotubes Synthesis Properties A Concise Review, Journal of Applied Sciences and Computations, Volume 6, Issue 2, 2019
- ❖ S. Kalaiselvan et al. Waste Water Treatment Using Air Stripper and Natural Adsorbent, International Journal Of Research and Analytical Reviews, Volume 6, Issue 1, 2019

- ❖ S. Kalaiselvan et al., Construction and efficiency investigation of biogas plant, International Journal of Advanced Science and Research, Volume 4, Issue 3, 2019.
- ❖ Adsorption of Acid Dye (Acid Blue1) by Activated Carbon from Agricultural Solid Waste Leucona Leucocephala Seed Shell Waste. Material Science Research India
- ❖ Lawrence Justin A, Padmavathi R & Kalaiselvan S Study of the Physico Chemical Properties of Treated Water from Coimbatore Lake Using Ecobiosorbent, AIP Conference Proceeding
- ❖ Free Radical Scavenging Activity of Dihydrocaffeic Acid: A Quantum Chemical Approach, **Asian Journal of Chemistry**
- ❖ Padmavathi R, **Kalaiselvan S** & Sharmila Lydia I Utilization of Solar Energy for Photodegradation of Basic Violet 10 Using Tin Oxide Doped ZnO, **Journal of Ovonic Research**, **Romania**
- ❖ Growth of MWCNTs from Azadirachta Indica Oil for Optimization of Chromium (VI) Removal Efficiency Using Machine Learning Approach, Environmental Science and Pollution Research
- ❖ Optimization of Hexavalent Chromium Ion Removal from Electroplating Wastewater onto CMAC Using Factorial Experimental Design Analysis Indian Journal of Environmental Protection
- Current Updates On Covid-19 Vaccine Research and An Overview Of Therapeutic Drug Research, Journal of biosciences biotechnology research asia
- ❖ Antioxidant and antimicrobial studies of silver nanoparticles synthesized via chemical reduction technique, **Materials Today: Proceedings** [Elsevier]
- ❖ Syzygium Cumini Leaf Extract Exploited in the Green Synthesis of Zinc Oxide Nanoparticles for Dye Degradation and Antimicrobial Studies Materials Today: Proceedings [Elsevier]
- ❖ Impact of Assorted Temperature on Yield and Surface Morphology of Multiple Layers of Carbon nanotubes by Spurt Pyrolysis Technique Material Science Forum (Trans tech Publisher Switzerland) Vol 1119, pp 101-110, 2024
- ❖ Box-Behnken Design for Photocatalytic Degradation of Sudan Black B by Catalyst–Embedded Multi-Walled Carbon nanotubes, J.Environ.Nanotechnol., Vol 13(1), pp 213-225, 2024

### SELECTED MOOCs (ONLINE COURSE) COMPLETED

- Understanding By Design from District Institute of Education & Training,
   Salem
- Household Electrical Devices and appliances Organized by Department of Physics, AVS College of Arts & Sciences, Salem
- Medical Laboratory Techniques Organized by Department of Microbiology & Biotechnology, *AVS College of Arts & Sciences*, Salem
- Basics Principles of Spectroscopics Organized by Department of Chemistry, AVS College of Arts & Sciences, Salem
- Certificate Course in Entrepreneurship (CCE) from CSC Academy
- Protection Techniques from *AMCAT*

S. No.	Name of the Course	Percentage	Duration of the Course	Offered by / Organization
		)		(Platform Name)
1	Computer Archtecture	77.50	11 weeks	Princeton University /Coursera
2	Material Behaviour	92.5	6 weeks	Georgia Institute of Technology /Coursera
3	The Science of Stem Cells	82.0	5 weeks	American Museum of Natural History /Coursera
4	Introduction to Molecular Spectroscopy	93.0	4 weeks	University of Manchester /Coursera
6	COVID-19 Contact Tracing	94.9	1 week	Johns Hopkins University/Coursera
7	Introduction to Psychology	94.2	6 weeks	Yale University /Coursera
8	Fundamentals of Engineering Exam Review	88.2	8 weeks	Georgia Institute of Technology/Coursera
9	The Challenges of Global Health	78.6	5 weeks	Duke University / Coursera
10	Ecology: Ecosystem Dynamics and Conservation	84.0	5 weeks	American Museum of Natural History /Coursera
11	Introduction to Augmented Reality and ARCore	90.0	4 weeks	Google AR & VR /Coursera
12	Data Science Math Skills	84.6	4 weeks	Duke University /Coursera
13	Epidemics, Pandemics and Outbreaks	87.9	4 weeks	University of Pittsburgh /Coursera
14	Dairy and Food Process and Products Technology	70	12 weeks	NPTEL IIT Kharagpur
15	Ecology and Society	60	12 weeks	NPTEL IIT Guwahati
16	Non-Conventional Energy Resources	67	12 weeks	NPTEL IIT Madras

S. No.	Name of the Course	Percentage	Duration of the Course	Offered by / Organization (Platform Name)
17	Enhancing Soft Skills and Personality	76	8 weeks	NPTEL IIT Kanpur
18	Structural Analysis of Nanomaterials	72	4 weeks	NPTEL IIT Roorkee
19	Nature and Properties of Materials	66	8 weeks	NPTEL IIT Kanpur
20	English Language for Competitive Exams	70	12 weeks	NPTEL IIT Madras

### **BEST PAPER & PRESENTATION AWARD RECEIVED**

- ❖ Best paper award at International Conference on Green Materials and Renewable Energy (ICGMRE) Organized by Department of Applied Chemistry, Sri Venkateshwara College of Engineering, Chennai
- ❖ Best paper presentation award at MODELING OF CRYSTAL GROWTH PROCESSES AND DEVICES" (MCGPD), SSN Research Centre (SSNRC), SSN Institutions
- ❖ Best paper award at International Conference CHEMSMAT rom the Department of Chemistry, St. Joseph's College, Trichy.

### PATENT PUBLISHED / GRANTED

- ❖ A Comparative Study to Analyze the Impact of Nano Materials and Their Energy Delivery to the Solar Panels **Application No: 202241014156 A**
- ❖ Machine Learning Based Approach to Analyze the Optical Properties of Bismuth Borate Glasses on Various Metals for Laser Applications – Application No: 202221017036
- ❖ Artificial Intelligence based Automatic Prediction System to predict and Diagnosis of various heart diseases to prevent at early stage with affordable rate using Data Mining and Deep Learning Algorithms **Application No: 202231043984**
- ❖ Artificial Intelligence based Automatic Health care system to recognize fruits, vegetables and calorie estimation for Healthy life using Deep Learning Algorithm Application No: 202241042198
- ❖ Vegetable Quality Analyzing Device Design No: 379718-001 Dated:12/04/2024 (Design Grant)

### RECOGNIZED Ph.D. SUPERVISOR

- Recognized Supervisor for guiding Ph.D. and M.S (by research) by Anna University, Chennai. (Ref. No.4070020)
- ❖ Area of Specialization: Nanotechnology Carbon nanomaterials Solar Cells Applications Polymer Technology

### INTERNATIONAL/NATIONAL CONFERENCE ORGANIZED

- Organized One Day National Conferences on Recent Trends and Advances in Greener Synthesis (RTAGS JAN 2018 Edition First)
- ❖ Organized One Day National Conferences on Recent Trends and Advances in Greener Synthesis (RTAGS JAN 2019 Edition Second)
- ❖ Organized One Day National Conferences on Recent Trends and Advances in Greener Synthesis (RTAGS FEB 2020 Edition Third)

### RESOURCE PERSON INVITED TALK / FDP / GUEST LECTURE

- ❖ Delivered Guest Lecture on **Applications of Nano Composite Materials in Mechanical Engineering** At RMPT College, Udumalpet, TN, India
- ❖ Delivered FDP Talk on Synthesis, Morphological Studies & Applications of Nanostrucutred Materials At MK Jain College For Women, Tirupattur, TN, India
- ❖ Guest lecture On Advanced Carbon Materials and its Everyday Applications at Karpagam Institute of Technology (KITZ 2015), Coimbatore, TN, India
- ❖ Delivered Guest Lecture on **Applications of Nanostrucutred Materials in Biotechnology and Medicine** At Kathir College of Arts and Science, Coimbatore TN, India
- Guest lecture On Introduction to Fuel Cell Chemistry, Department of Aeronautical Engineering, Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra

### **BOOKS & BOOK CHAPTER PUBLICATIONS**

- ❖ Stupendous nanomaterials A Carbon nanotubes Synthesis, Characterization and Applications (**InTech**)
- ❖ Vapor-Grown Carbon fiber Synthesis, Properties and Applications (**InTech**)
- ❖ Applications of UV-VISIBLE & FT-IR Spectral Analysis in Effluent Treatment (Omics International)
- Engineering Chemistry (Global Publisher)

### FACULTY DEVELOPMENT PROGRAMME COMPLETED

- ❖ Faculty Development Programme on Structural Analysis of Nanomaterials through **NPTEL** 2018 (0.5 Week)
- ❖ Faculty Development Programme on Nature and Properties of Materials from NPTEL 2018 (One Week)
- ❖ Faculty Development Programme on Non Conventional Energy Resources from **NPTEL** 2018 (1.5 Weeks)
- ❖ Faculty Development Programme on Enhancing Soft Skills and Personality from NPTEL 2019 (1.5 Weeks)
- ❖ Faculty Development Programme on English language for Competitive exams from **NPTEL** 2019 (One Week)
- ❖ One Week Online Faculty Development Programme on "Recent Advances And Research Avenues In Material Science" (RRM-2020), Organized by Department of Chemistry, School of Advanced Sciences, Kalasalingam Academy of Research and Education
- ❖ Three days online International Faculty Development Programme on Recent Advances in Applied Chemical Sciences" Organised by the Department of Chemistry, SNS College of Technology, Coimbatore.
- ❖ Three Days Online Faculty Development Programme on **Emotional Intelligence** Organized by KG College of Arts & Science, Coimbatore
- ❖ One Week Faculty Development Programme on Advanced Materials Research Organized by BIET & Indian Ceramic Society
- ❖ One Week Online Faculty Development Programme on **Advancement in Science and it's Applications in Engineering** Organized by Hyderabad Institute of Technology & Management, Hyderabad.
- ❖ Five Days FDP on **Innovative Teaching Learning Methodologies** conducted by Coimbatore Institute of Technology Teaching Learning Centre
- ❖ Four Days International FDP on **Solar Energy Applications** organized by Mechanical Department Hindusthan College of Engineering & Technology, Coimbatore
- ❖ Participated in the 14-days Online Faculty Development Programme on "MATERIALS SCIENCE & NANOTECHNOLOGY (FDP-MSNT-2020)" organized by Department of Chemistry, B.S. Abdur Rahman Crescent Institute of Science and Technology, Vandalur, Chennai.
- ❖ One Week FDP on Impacts of Nanomaterials Applications in environment

Organized by department of Physics- Mepco Schlenk Engineering College, Sivakasi

- ❖ Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Sensors Technology" from 2020-10-1 to 2020-10-5 at NIT Jamshedpur.
- **❖** AICTE Sponsored Six Days Online Short-Term Training Programme (STTP) on "Enhancing Research and Development through Project Based
- ❖ Learning to Achieve Outcome Based Education in Engineering" from 22.10.2020 to 29.10.2020 organized by Department of Mechanical Engineering, Sri Krishna College of Technology, Coimbatore
- ❖ Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online FDP "Robotics" from 2020-12-14 to 2020-12-18 at Ramrao Adik Institute of Technology.
- ❖ Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online FDP "Energy Engineering" from 2020-12-21 to 2020-12-25 at Government College of Engineering, Thanjavur.
- ❖ Participated in the Two days Online Faculty Development Programme (FDP) on "Current Trends in Advanced Materials, Nanotechnology and Energy(CTANE -2020)" from 28.11.2020 to 29.11.2020.
- ❖ Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online FDP "Robotics" from 2020-12-14 to 2020-12-18 at Ramrao Adik Institute of Technology.
- ❖ Participated & Completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Recent Trends in Chemical and allied Industries" from 2021-06-21 to 2021-06-25 at Government Polytechnic Daman.

### AREA OF RESEARCH (In M.Phil & Ph.D)

M.Phil: Synthesis, Characterization and Antimicrobial Studies of Trizole and Related Compounds and their Spectral Evidence.

**Ph.D:** Structure and Morphological Studies of Multi-walled Carbon nanotubes Synthesized from Methyl esters of Plant derived oils by Spray Pyrolysis.

#### **DECLARATION**

I hereby declare that the information furnished above is true to the best of my knowledge and belief.

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Yours truly, Dr S KALAISELVAN