



Dr. T. STALIN
ASSOCIATE PROFESSOR

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Annamalai University, Tamilnadu, India.	2008	Chemistry	Awarded
M.Phil.	Annamalai University, Tamilnadu, India.	2003	Applied Chemistry	First class
M.Sc.	Annamalai University, Tamilnadu, India.	2000	Chemistry	First class
B.Sc.	Bharathidasan University, Tamilnadu, India	1996	Chemistry	First class

Teaching & Research Experiences

Total Teaching Experience: 15 Years 10 months

Position	Institution	Duration
*Professor	Department of Industrial Chemistry Alagappa University, Karaikudi Tamilnadu, India.	2024 – Till date
Associate Professor	Department of Industrial Chemistry Alagappa University, Karaikudi Tamilnadu, India.	2021 – 2024
Assistant Professor	Department of Industrial Chemistry Alagappa University, Karaikudi Tamilnadu, India.	2009 – 2021

***Professor** – The CAS interview has been completed, and I am now waiting for the results.

PDF/ Visiting Professor: Abroad

Position	Institution	Duration
Post-doctoral Researcher (Raman Fellow)	University of Miami, Florida, USA.	2017-2018

Academic and Additional Responsibilities

S. No.	Position	University Bodies	Period	
			From	To
1	Chief Superintendent for Regular PG Examinations	Alagappa University Karaikudi -630003 Tamil Nadu, India.	May-2023	June-2023
2	Chief Superintendent for DDE Examinations	Alagappa University Karaikudi -630003 Tamil Nadu, India.	June-2023	July-2023
3	Chief Superintendent for Regular PG Examinations	Alagappa University Karaikudi -630003 Tamil Nadu, India.	November - 2022	December - 2022
4	Chief Superintendent for DDE Examinations	Alagappa University Karaikudi -630003 Tamil Nadu, India.	December - 2022	January- 2023

Areas of Research

- ❖ Photochemistry, Supramolecular chemistry
- ❖ Preparation and characterizations of newer cathode, anode, and electrolyte materials for solar cells.
- ❖ Develop the Carbon Quantum Dots based materials for energy storage devices.

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.,	12	8
	M.Phil.,	9	-
PG Projects	PG	65	7

Ph.D., Students/Thesis Guided at Alagappa University, Tamilnadu, India.

1. **K. Srinivasan, Register No.: 0087 & 08-09-2009, Full - Time Ph.D., Scholar (May 2014).**
Thesis Title: Preparation and characterization of inclusion complexes of aromatic dinitro compounds with β -cyclodextrin and their application as uv absorber in ball point pen ink.
Present position: Assistant Professor, Dept. of Chemistry, Sree Sevugan Annamalai College, Devakottai- 630303, Tamil Nadu, INDIA.
2. **R. Kavitha, Register No.: 0138 & 10-12-2009, Part -Time Ph.D., Scholar (October 2014).**
Thesis Title: Study on photophysical behavior of inclusion complexes between naphthalene derivatives and β -cyclodextrin and their application for chemosensor.
Present position: Assistant Professor, Dept. of Chemistry, Sri Sarada College for Women, Salem-636016, Tamil Nadu, INDIA.
3. **C. Menaka, Register No.: 0150 & 20-02-2010, Full - Time Ph.D., Scholar (July 2015).**
Thesis Title: Development of electrode and electrolyte materials for solar cell applications.
Present position: PG Teacher, Govt Girls Higher Secondary School, Gobi, ERODE -638476, Tamil Nadu, INDIA.
4. **S. Mohandoss, Register No.: 0190 & 07-05-2010, Full - Time Ph.D., Scholar (May 2016).**
Thesis Title: Study on host-guest inclusion complexes and their colorimetric and fluorescent chemosensors applications.
Present position: Research Professor, School of Chemical Engineering, Yeungnam University, Gyeongsan, SOUTH KOREA.
5. **A. Shanmugapriya, Register No.: 0230 & 15-09-2010, Full – Time Ph.D., Scholar (July 2016).**
Thesis Title: Preparation and characterization of inclusion complexes of poorly water

soluble drugs with β -cyclodextrin and their pharmaceutical applications

Present position: Assistant Professor, Department of Chemistry, PSR Arts and Science College, Sivakasi-626140, Tamil Nadu, INDIA.

6. **K. Paramasivaganesh, Register No.: 0106 & 09-10-2009, Part - Time Ph.D., Scholar (March 2017).**

Thesis Title: Study of host-guest inclusion complexes between different biphenyl compounds and β -cyclodextrin and their antibacterial activity.

Present position: Assistant Professor, Department of Chemistry, Arumugam Pillai Seethai Ammal College, Tirupattur – 630211, Tamil Nadu, INDIA.

7. **M. Maniyazagan, Register No.: 0679 & 07-05-2013, Full - Time Ph.D., Scholar (April 2017).**

Thesis Title: Preparation and characterization of new fluorescent probes for chemosensor applications: photophysical, *in-silico* and *in-vitro studies*

Present position: Research Professor, Nanotechnology & Advanced Materials Engineering, Sejong University, Seoul, SOUTH KOREA.

8. **B. Suganya Bharathi, Register No.: 0946 & 30-07-2014, Full - Time Ph.D., Scholar – (October 2020).**

Thesis Title: Development of functional nanofibrous scaffold materials and their wound healing studies

Present position: Assistant Professor, Department of Chemistry, Dayananda Sagar University, Bengaluru, Karnataka - 560078, INDIA.

9. **K. Sakthivelu, Register No.: 0570 & 07-12-2012, Full - Time Ph.D., Scholar – (June 2021).**

Thesis Title: Preparation and Characterizations of Polymeric materials for Solar Cell Application

Present position: Post-Doctoral Researcher, School of Chemical Engineering, Yeungnam University, Gyeongsan, SOUTH KOREA.

10. **G. Vigneshkumar, Reg. No.: 1756 & 27-10-2017, Full - Time Ph.D., Scholar – (24.01.2024 Viva-Voce Examination completed).**

Thesis Title: Studies on cyclodextrins based host-guest complexes for electrochemical and fluorescent sensor applications

Present position: Research Scientist, Royal Enterprises (P) Ltd., Chennai.

11. **N. Vimalasruthi, Reg. No.: 1954 & 04-08-2018, Full - Time Ph.D., Scholar – (10.10.2024 Viva-Voce Examination completed).**

Thesis Title: Spectral studies on cyclodextrins with select phenolic compounds and their electrospun nanofibers for biological and sensor applications

Present position: Executive Director, Tea Time in Puducherry.

12. **S. Esakkimuthu, Reg. No.: 2232 & 04-09-2019, Full - Time Ph.D., Scholar – (23.10.2024 Viva-Voce Examination completed).**

Thesis Title: Synthesis of red-to-blue upconversion system based on triplet–triplet annihilation and copolymeric electrospun fiber for the solar cell device

Present position: Visiting Researcher, Department of Chemical Engineering and Biotechnology, **National Taipei University of Technology, Taipei, Taiwan.**

13. V. Kannan, Reg. No.: 2464 & 23-12-2020, Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis of Cinnamic acid derivatives and their binding properties to Cyclodextrins and Cucurbiturils host molecules

14. P. Sowmiapratha, Reg. No.: R20162802 & 24-12-2021, Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis and characterization of the trans–cinnamic acid methyl esters and inclusion complex studies with β -Cyclodextrin and Cucurbit (7) uril

15. V. Ayerathal, Reg. No.: R20223085 & Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis and characterizations of select drug derivatives and their inclusion complexes with cyclodextrins for pharmaceutical applications

16. M. Sujitha, Reg. No.: R20223086 & Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis and characterizations of aromatic heterocyclic compounds and their inclusion complexes with cyclodextrins for biological applications

17. V V. Ravikumar, Reg. No.: R20223123 & 08.11.2023, Part - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Preparation and characterizations of medicinal properties compounds from plants and their inclusion complexes with Cyclodextrins for pharmaceutical and biological applications

18. M. Kaleeswari, Reg. No.: R20223251 & 21.09.2024, Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis and characterization of selective aromatic azine compounds for fluorescent sensor applications

19. K. Nithesh Kumar, Reg. No.: Waiting & 09.12.2024, Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Synthesis of biomass-derived carbon incorporating photo and electrocatalytic active materials and their applications

20. B. Harini, Kumar, Reg. No.: Waiting & 13.12.2024, Full - Time Ph.D., Scholar – (Ongoing)

Thesis Title: Design of Cyclodextrins with photoactive molecules inclusion complexes decorated carbon quantum dots for diverse applications

M.Phil., Dissertation / Guided at Alagappa University, Tamilnadu, India.

1. K. Kayalvizhi, Reg. No.: 2009596007, 2009 – 2010 batch (Awarded)

Thesis Title: Study of inclusion complex of Diphenylamine and β -Cyclodextrin; Photophysical

and electrochemical behaviors

2. **J. Vaheethabanu, Reg. No.: 2009596014, 2009 – 2010 batch (Awarded)**
Thesis Title: Spectroscopic and electrochemical studies of ortho-anisidine in different solvents, pH and β -Cyclodextrin
3. **D. Krishna veni, Reg. No.: 2010596004, 2010 – 2011 batch (Awarded)**
Thesis Title: Spectroscopic and electrochemical studies of ortho-anisidine in different solvents, pH and β -Cyclodextrin
4. **K. Sathya, Reg. No.: 2011596007, 2011 – 2012 batch (Awarded)**
Thesis Title: Investigation of polyaniline counter electrode and polymer gel electrolyte for dye-sensitized solar cell applications
5. **P. Malathi, Reg. No.: 2013596003, 2013- 2014 Batch, (Awarded)**
Thesis Title: Preparation and characterization of Rhodamine derivative and their chemosensor applications
6. **M. Mohana, Reg. No.: 2014596006, 2014- 2015 Batch, (Awarded)**
Thesis Title: Spectral study an inclusion complexation between aromatic carboxylic acid and β -Cyclodextrin
7. **A. Saranyadevi, Reg. No.: 2015596006, 2015- 2016 Batch, (Awarded)**
Thesis Title: Electrochemical preparation and characterization of poly(aniline)-graphene oxide binary composite counter electrode for Dye sensitized solar cell
8. **M. Manojkumar, Reg. No.: 2017596004, 2017- 2018 Batch, (Awarded)**
Thesis Title: Graphene oxide decorated Methylammonium lead iodide Nanocrystalline materials for Perovskite Solar Cell
9. **P. Muthuselvi, Reg. No.: 2018596006, 2018- 2019 Batch, (Awarded)**
Thesis Title: Fabrication of Bromelain-Modified Poly (Vinyl Alcohol)/Hydroxy Ethyl Cellulose Electrospun Mats and their Applications as Antibacterial and Antioxidant Studies

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
92	15	2	68	5

Cumulative Impact Factor (as per JCR) : 380.64

h-index : 31

i10 index : 64

Total Citations : 2461

Funded Research Projects

Completed Projects:

S.No.	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	RUSA 2.0 Phase II	2022	2024	Preparation, Charaterizations, and fabrication of Organic solar cell	4, 00,000
2	DST Govt. of India.	2019	2022	Preparation and characterization of electrically conducting organic polymer photoactive film for organic photovoltaic cells: by electrochemical doping and electrospinning approaches	32,82,500
3	RUSA 2.0 Phase I	2018	2019	Preparation and Charaterizations of Solar cell materials for DSSC	3, 35,000
4	UGC Govt. of India.	2017	2018	Improvements of Drug Propertiesby Cyclodextrin Complexation –Raman fellowships for postdoctoral research for Indian scholars in USA.	25,13,752
5	DST Govt. of India.	2011	2014	Enhanced Host-guest electrochemical recognition of various organic pollutants using cyclodextrin in the presence of carbon nanotubes	21,20,000
6	UGC Govt. of India.	2011	2014	Development of newer modified electrodes using conducting polymer nano composites for dye Sensitized solar cells	7,23,800
7	AURF	2009	2010	Fluorescence biosensor based on insoluble β -cyclodextrin polymer for direct determination of cholesterol and 2, 4- and 2, 6-dinitrophenols	64,000

Distinctive Achievements / Awards

- Alagappa University, Karaikudi, Tamil Nadu, India – **Academic and Research Excellence Award – 2024, Certificate with cash prize Rs. 3000/-.**
- Alagappa University, Karaikudi, Tamil Nadu, India – **Outstanding Academic and Research Excellence - Appreciation Certificate award - 2023.**
- Alagappa University, Karaikudi, Tamil Nadu, India – **Promising Researcher Award - 2022; Certificate with cash prize Rs. 3000/-.**

- Alagappa University, Karaikudi, Tamil Nadu, India – **Vallal Alagappan Research Recognition Award - 2020.**
- University grants commission, New Delhi, India– **Raman fellowships for postdoctoral research for Indian scholars in USA, 2017.**
- Department of Science & Technology (INDIA) – SERC Fast Track **YOUNG SCIENTIST AWARD, 2011.**

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized:

Position	Programme	Duration	Institution
Organizing Secretary	International Conference on Frontier Areas in Chemical Technologies – 2024 (FACTs-2024)	22 nd & 23 rd , March 2024	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Organizing Secretary	Nobel Excellence Talks - ACT NExT: Nobel Prize in Chemistry	13 th March, 2020	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Organizing secretary	International Seminar on Frontier Areas in Chemical Technologies – 2019 (FACTs-2019)	25 th & 26 th July, 2019	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Co-Organizing Secretary	National Seminar on Frontier Areas in Chemical Technologies – 2018 (FACTs-2018),	21 st & 22 nd March, 2018	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Joint Secretary	International Seminar on Frontier Areas in Chemical Technologies – 2016 (FACTs-2016)	21 st - 23 rd March, 2016	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Organizing Secretary	National Seminar on Frontier Areas in Chemical Technologies – 2015 (FACTs-2015)	6 th & 7 th March, 2015	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Convener	National Seminar on Recent Advances in Textile and Electrochemical Sciences, Alagappa University (RATES-2012)	21 st & 23 rd , March, 2012	Alagappa University Karaikudi - 630003 Tamil Nadu, India.
Co-convener	National seminar on Recent Advances in Textile and Electrochemical Sciences,	4 th & 5 th , December, 2009	Alagappa University Karaikudi - 630003 Tamil Nadu, India.

	Alagappa University (RATES-2009)		
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Events Participated

Number of Seminars / Conferences / Workshops / Events organized:

National Conferences: 43

International Conferences: 20

Overseas Exposure / Visits

- ❖ Poster presentation at International Conference on Solid State Devices and Materials (SSDM-2019) during 2nd to 5th September 2019 at Nagoya University, JAPAN.
- ❖ Poster presentation at Gordon Research Conference-Photochemistry, July 23-28, 2017, Bates college, Lewiston, Maine 04240, USA.
- ❖ Post-doctoral Researcher (Raman fellowship funded by UGC, New Delhi), 2017-2018. University of Miami, Florida, USA.

Membership

Professional Bodies

1. Indian Science Congress Association, Kolkata, India (L14707).
2. Solid State Chemistry, Jammu and Kashmir, India.
3. Indian society for Radiation and Photochemical sciences, Bombay, India.

Advisory Board

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
On going	Department of Industrial Chemistry, Alagappa University, Karaikudi- 630 003, Tamilnadu, India.	Member

Academic Bodies in Other Institutes/ Universities

Year / Period	Name of the BoS / Administrative Committee / Academic Committee	Role
2023 – 2024 2022 – 2023	Department of Chemistry, JJ College of Arts and Science, Pudukkottai, Tamilnadu, India.	Board of Studies (BoS) Member
2021	Department of Chemistry, Sengamalathayaar educational trust women's college, Mannargudi- 614016, Tamil Nadu.	Board of Studies (BoS) Member
2020	Department of Chemistry of Dhanalakshmi Srinivasan	Board of

	College of Arts & Science for Women, Perambalur, Tamilnadu, India.	Studies (BoS) Member
2019	Department of Chemistry, Periyar E.V.R College, Tiruchirapalli- 620023.	Board of Studies (BoS) Member
2019	“National Science day” Oral and poster presentation Competation, Council of Scientific and Industrial Research–Central Electro Chemical Research Institute (CSIR–CECRI), Karaikudi-630003, Tamil Nadu.	Judge
2019	Department of Chemistry, Periyar E.V.R College, Tiruchirapalli- 620023.	Academic Audit Member
2018	CSIR-Senior Research Fellow for extension of fellowship for 5 th year, Council of Scientific and Industrial Research–Central Electro Chemical Research Institute (CSIR–CECRI), Karaikudi- 630003, Tamil Nadu.	Member of Assessment

List of Research Articles Published

S.No	Authors/Title of the paper/Journal	Impact Factor
1.	Sowmiapratha Pandikannan, Esakkimuthu Shanmugasundaram, Kannan Vellaisamy, Sujitha Muthuchamy, Nithesh Kumar Krishnan, Murali Krishnan Mani, Vaseeharan Baskaralingam, Ashokkumar Sibiya, Chandramohan Govindasamy, Khalid M Almutairi, Stalin Thambusamy* , (2025) Synthesis, computational, and spectral investigation of cinnamate derivatives/ β -cyclodextrin inclusion complexes studies for biological applications, Journal of Molecular Structure 1327 (2025) 140970. https://doi.org/10.1016/j.molstruc.2024.140970 , [Elsevier].	4.0
2.	Esakkimuthu Shanmugasundaram, Amos Ravi, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, Sowmiapratha Pandikannan, Suganya Bharathi Balakrishnan, Stalin Thambusamy* , (2025) Peanut shell-derived activated carbon incorporated with nitrogen anode and cobalt cathode materials (“two-in-one” strategy) for asymmetric supercapacitor (N-PAC//PVA-KOH//Co-PAC) applications, RSC Sustainability https://doi.org/10.1039/D4SU00399C , [Royal Society of Chemistry].	n/a
3.	Kannan Vellaisamy, Esakkimuthu Shanmugasundram, Vigneshkumar Ganesan, Saivaraj Senguttuvan, Stalin Thambusamy* , (2025) Synthesis, characterization, spectroscopic, and electrochemical investigation of inclusion complex of ethyl cinnamate with γ -cyclodextrin for antibacterial studies, ChemistrySelect (Accepted), September 2024. https://doi.org/10.1002/slct.202402922 , [Wiley].	2.1
4.	Vigneshkumar Ganesan, Chandramohan Govindasamy, Esakkimuthu Shanmugasundaram, Kannan Vellaisamy, Nithesh Kumar Krishnan, Murali Krishnan Mani, Selvam Kaliyamoorthy, Bo-Tau Liu*, Stalin Thambusamy* ,	3.8

	(2025) 2-Hydroxybenzaldehyde azine and γ -cyclodextrin based colorimetric/fluorescent probe for highly sensitive and selective detection of Cu^{2+} , ChemPhotoChem (Accepted) First published: 24 August 2024 https://doi.org/10.1002/cptc.202400170 , [Wiley].	
5.	Kumaraswamy Paramasivaganesh, Chandramohan Govindasamy, Esakkimuthu Shanmugasundaram, Nithesh Kumar Krishnan, Chokalingam Saravanan, Jayaraman Thanusu, Stalin Thambusamy* , (2025) Structural and antibacterial assessment of two distinct dihydroxy biphenyls encapsulated with β -cyclodextrin supramolecular complex, Journal of Molecular Structure 1320 (2025) 139701. https://doi.org/10.1016/j.molstruc.2024.139701 , [Elsevier].	4.0
6.	Munisamy Maniyazagan, Esakkimuthu Shanmugasundaram, Perumal Naveenkumar, Hyeon-Woo Yang, Nayoung Kang, Woo Seung Kang, Stalin Thambusamy* , Sun-Jae Kim**, (2024) MOF-derived sulfur-doped iron-nickel bimetallic phosphide nanowires: A bifunctional electrode for hydrogen and oxygen evolution reactions, International Journal of Hydrogen Energy, 81(2024) 774-784. https://doi.org/10.1016/j.ijhydene.2024.07.332 , [Elsevier].	8.1
7.	Esakkimuthu Shanmugasundaram, Kannan Vellaisamy, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Na'il Saleh, Stalin Thambusamy* , (2024) Dual applications of cobalt oxide grafted carbon quantum dots nanocomposite for two electrode asymmetric supercapacitor and photocatalytic behavior, ACS OMEGA 9, 12, (2024) 14101–14117. https://doi.org/10.1021/acsomega.3c09594 . [American Chemical Society].	4.1
8.	Esakkimuthu Shanmugasundaram, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, Na'il Saleh, Stalin Thambusamy* , (2024) Construction of binder-free PANI-CQD-Cu electrode by electrochemical method for flexible supercapacitor applications, Nanoscale Advances 6 (2024) 1765 – 1780. https://doi.org/10.1039/D3NA00986F , [Royal Society of Chemistry].	4.6
9.	S. Gokul Eswaran, T. Stalin* , D. Thiruppathi, Manivannan Madhu, S. Santhoshkumar, Jolanta Warchol, A. Santhana Krishna Kumar, Wei-Lung Tseng, and N. Vasimalai, (2024) One-pot synthesis of carbon dots from neem resin and the selective detection of Fe(II) ions and photocatalytic degradation of toxic dyes, RSC Sustainability 2 (2024) 635-645. https://doi.org/10.1039/D3SU00404J , [Royal Society of Chemistry].	n/a
10	Kannan Vellaisamy, Chandramohan Govindasamy, Muhammad Ibrar Khan Vigneshkumar Ganesan, Vimalasruthi Narayanan, Esakkimuthu shanmugasundaram, Ayerathal Velmurugan, Rajaram Rajamohan, Stalin Thambusamy* , (2023) Eco-Friendly Production of Palladium-Modified γ -Cyclodextrin and Its Methyl Cinnamate Inclusion Complex: Catalyst for Reduction and Antibacterial Properties, Materials Today Communications 37 (2023) 107367. https://doi.org/10.1016/j.mtcomm.2023.107367 , [Elsevier].	3.7
11	Vimalasruthi Narayanan, Chandramohan Govindasamy, Esakkimuthu Shanmugasundaram, Vigneshkumar Ganesan, Rajaram Rajamohan, and Stalin Thambusamy* , (2023) Preparation of Gallic acid functionalized Polyvinyl alcohol/ β -cyclodextrin-Silver nanoparticles cast film as an antimicrobial and antioxidant agent, Journal of Applied Polymer Science, (2023) e54652. https://doi.org/10.1002/app.54652 , [Wiley].	3.0

12	Vimalasruthi Narayanan, Vigneshkumar Ganesan, Esakkimuthu Shanmugasundram, S. Durganandini, Kannan Vellaisamy, Hariharan Amirthalingam, Rajaram Rajamohan, Stalin Thambusamy* , (2023) Spectral studies of synthetic symmetric syringaldehyde di-Schiff azine with β -cyclodextrin inclusion complexes as a fluorescent probe for the detection of metal ions, Journal of Photochemistry and Photobiology A: Chemistry 445, (2023) 115069. https://doi.org/10.1016/j.jphotochem.2023.115069 , [Elsevier].	4.1
13	Maniyazagan Munisamy, Balamurugan Rathinam, Esakkimuthu Shanmugasundaram, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Suganya Bharathi Balakrishnan, Selvam Kaliyamoorthy, and Stalin Thambusamy* , (2023) β -Cyclodextrin-Encapsulated Rhodamine derivatives Core-Shell Microspheres – Based Fluorescent Sensor for Au^{3+} and Template for Generating Microplates of Gold, Micromachines 14(7) (2023) 1443, https://doi.org/10.3390/mi14071443 , [MDPI].	3.0
14	Esakkimuthu Shanmugasundaram, Chandramohan Govindasamy, Muhammad Ibrar Khan, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, Rajaram Rajamohan, Stalin Thambusamy* , (2023) Electrospun and electropolymerized carbon nanofiber-polyaniline-Cu material as a hole transport material for organic solar cells, Carbon Letters, (2023). https://doi.org/10.1007/s42823-023-00578-0 , [Springer].	5.5
15	Esakkimuthu Shanmugasundaram, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, Rajaram Rajamohan*, Yong Rok Lee*, Selvam Kaliyamoorthy, Stalin Thambusamy* , (2023) Hetero atom (boron, nitrogen, and fluorine) quantum dot doped polyaniline-photoactive film preparation and characterization for organic solar cell applications, New Journal of Chemistry, (2023) https://doi.org/10.1039/D3NJ02435K , [Royal Society of Chemistry].	2.7
16	Jeyavani Jeyaraj, Vaseeharan Baskaralingam*, Thambusamy Stalin , Inbasekaran Muthuvel, (2023) Mechanistic vision on polypropylene microplastics degradation by solar irradiation using TiO_2 nanoparticle as photocatalyst, Environmental Research 233 (2023) 116366. https://doi.org/10.1016/j.envres.2023.116366 , [Elsevier].	7.7
17	K. Paramasivaganesh, Vimalasruthi Narayanan, Vigneshkumar Ganesan, Esakkimuthu shanmugasundram, Rajaram Rajamohan, Yong RokLee, Stalin Thambusamy* , (2023) Inclusion complexation of biphenyl-3,3',4,4'-tetraamine and 4,4'-diaminobiphenyl-3,3'-diol with β -cyclodextrin for antibacterial activity, Journal of Molecular Structure 1289 (2023) 135866. https://doi.org/10.1016/j.molstruc.2023.135866 , [Elsevier].	4.0
18	Vigneshkumar Ganesan, Murali Krishnan Mani, Vimalasruthi Narayanan, Esakkimuthu Shanmugasundram, Kannan Vellaisamy, Vaseeharan Baskaralingam, Jeyavani Jeyaraj, GiriBabu Veerakanellore, Rajaram Rajamohan, Stalin Thambusamy* , (2023) Synthesis, characterization of 4,4'-((1E,1'E)-hydrazine-1,2-diylidenebis(methanylylidene)) diphenol and the inclusion complex with γ -cyclodextrin as a fluorescent probe for detection of Al^{3+} , Journal of Photochemistry and Photobiology A: Chemistry. 442 (2023) 114814. https://doi.org/10.1016/j.jphotochem.2023.114814 , [Elsevier].	4.1
19	Arumugam Shanmuga Priya, Jeyachandran Sivakamavalli, Baskaralingam	4.0

	Vaseeharan, Rajaram Rajamohan, Yong Rok Lee, Stalin Thambusamy* , (2023) Interaction of torsemide with native cyclodextrin through inclusion complexation: In-vitro drug release, antibacterial and antibiofilm activities, Journal of Molecular Structure 1286 (2023) 135624. https://doi.org/10.1016/j.molstruc.2023.135624 , [Elsevier].	
20	Jeyaraj Jeyavani, Ashokkumar Sibiya, Thambusamy Stalin , Ganesan Vigneshkumar, Khalid A. Al-Ghanim, Mian Nadeem Riaz, Marimuthu Govindarajan and Baskaralingam Vaseeharan*, (2023) Biochemical, Genotoxic and Histological Implications of Polypropylene Microplastics on Freshwater Fish Oreochromis mossambicus: An Aquatic Eco-Toxicological Assessment, Toxics 11 (2023) 282. https://doi.org/10.3390/toxics11030282 , [MDPI].	3.9
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Paper presented in National and International Conferences (Selectively):

National Conferences:

1. S. Esakkimuthu, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, and **T. Stalin ***, Carbon Quantum Dot doped polyaniline-photoactive film preparation and characterization for organic solar cell applications, Department of Chemistry, Sengamala Thayaar Educational Trust Women's College is organizing a National Conference on “Recent Advances in Chemistry-2023 (NCRAC-2023)” on March 7th, 2023.
2. S. Esakkimuthu and **T. Stalin ***, Investigations of the optical and electrical properties of carbon quantum dot doped conducting polymers for organic solar cell applications, 2nd international conference on advances in chemistry with specific reference to catalysis, sensors, drug delivery and energy materials (icacsem – 2022), held at Department of Physical Chemistry, University of Madras, Chennai – 600 025, during 28th & 29th March

2022.

3. G. Vigneshkumar, **T. Stalin***, Synthesis, characterization of 4,4'-((1E,1'E)-hydrazine-1,2-diylidenebis(methanylylidene)) diphenol and the inclusion complex with γ -cyclodextrin as a fluorescent probe for detection of Al^{3+} , National Conference on "Newer materials for energy and environmental applications" (NCNM-2022) held on 22nd & 23rd of September, 2022 at Dept. of Chemistry, Annamalai University, Chidambaram, Tamilnadu.

International Conferences:

1. Kannan Vellaisamy and **Stalin Thambusamy***, Eco-friendly synthesis of carbon quantum dots derived from γ -cyclodextrin for metal ion sensing and antibacterial applications, International Conference on Trends in Organometallic and Bioinorganic Chemistry (i-TOB 2025), held on 03.01.2025 and 04.01.2025 at Bharathidasan University, Tiruchirappalli, Tamil Nadu, India.
2. Anushiya Thandavan, Esakkimuthu Shanmugasundaram, and **T. Stalin***, $\text{Fe}_2\text{O}_3\text{-C}_{\beta}\text{CD/N-AQ}$ nanocomposite as an anode material for supercapacitor applications, International conference on Frontier Areas in Chemical Technoligies (FACTs- 2024) 22 & 23 March 2024, Alagappa University, Karaikudi Tamilnadu.
3. Esakkimuthu Shanmugasundaram, Vigneshkumar Ganesan, Vimalasruthi Narayanan, Kannan Vellaisamy, and **Stalin Thambusamy***, Carbon Quantum Dot doped polyaniline-photoactive film preparation and characterization for organic solar cell applications, Department of Chemistry, Sengamala Thayaar Educational Trust Women's College is organizing a National Conference on "Recent Advances in Chemistry-2023 (NCRAC-2023)" on March 7th, 2023.
4. S. Esakkimuthu and **T. Stalin***, Investigations of the optical and electrical properties of carbon quantum dot doped conducting polymers for organic solar cell applications, 2nd International conference on advances in chemistry with specific reference to catalysis, sensors, drug delivery and energy materials (icacsem – 2022), held at Department of Physical Chemistry, University of Madras, Chennai – 600 025, during 28th & 29th March 2022.
5. K. Sakthi Velu, B. Suganya Bharathi, G. Vigneshkumar, S. Esakkimuthu, J. Anandha Raj, S. Mohandoss, K. Selvam, Golap Kalita and **T. Stalin***, Electrospun poly (methyl methacrylate) decorated with Titanium di-oxide, Reduced graphene oxide (rGO) composite nanofiber for dye and perovskite sensitized solar cell applications, 6th International Conference on Nanoscience and Nanotechnology (ICONN-2021) held at SRMIST, Chennai during February 1-3, 2021.
6. N.Vimalasruthi and **T. Stalin***, Enhanced thermal stability of Caffeic acid (CA) by cyclodextrin (CD) inclusion complex with CA encapsulating Polyvinyl alcohol (PVA) electrospun nanofibers, International conference on Frontiers in chemical and material sciences (ICFCMS -2020), Organized by The gandhigram rural institute, Dindigul, during on 24-25th, February 2020.

Invited Lectures: (Selectively):

1. National webinar on “Nanomaterials role in the chemical, physical and biological sciences” February 28th 2022, Department of Chemistry, M.R.Government Arts College, Mannargudi, Tamil Nadu.
2. International webinar on “Innovative Technology in Chemistry”, March 2nd 2021, Department of Chemistry, Sengamalathayaar educational trust women’s college, Mannargudi – 614016, Tamil Nadu.
3. Felicitation Address – TNSCST, DOTE, Chennai Sponsered programme on “Application of Science and Technology for rural areas for Farmers and Self-help group Women”, February 11th 2019, Sree Sevugan Annamalai College, Devakottai- 630303, Tamil Nadu, INDIA.
4. State level Seminar on “Recent Trends in Chemistry”, September 28th 2018, Fatima College, Madurai – 625001, Tamil Nadu.
5. National seminar on “Periodic Table of Chemical Elements (NSPTCE), November 8th 2019, Department of Chemistry, Sri Chandrasekharendra Saraswathi Viswa Mahavidyalaya University (SCSVMV), Kanchipuram, Tamil Nadu.
6. National seminar on “Contemporary applications in nuclear science & technology” (CANST-16), February 4th 2016, Department of Chemistry of Dhanalakshmi Srinivasan College of Arts & Science for Women, Perambalur, Tamilnadu, India.
7. Department of Chemistry, JJ College of Arts and Science, Pudukkottai, Tamilnadu, India. Title: Photochemistry and their uses, on February -2016.
8. Chemstar club activity- Department of Chemistry, Cauvery College for Women, Tiruchirappalli, Tamilnadu, India, on 10.09.2015.
9. One day Seminar on “Current research scenario on supramolecular chemistry” organized by Department of Chemistry, Ananda college, Devakottai, Tamilnadu, India, on 25.02.2015.

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