Name: Dr K SUBA	Photo				
Designation:	Assistant Professor				
Qualification:	M.Sc., M.Phil., Ph.D.				
Area of specialization:	Materials Scien	ce			
Experience:	Industrial Experience		Teaching Experience		
			19 years and 2	2 months	
Number of workshops	Number of	Workshops	Number of FDPs		
/ FDP attended:		3	7		
Publications:	Conference		Journal		
	National	International	National	International	
	3	6	1	10	
Books / Book Chapters	2				
Patents:	National		International		
		2			
Professional Body Membership	IEEE				
	*Best Poster Display I Prize: Awarded on 31st August 2010 by Hindustan University. *Silver Award for Best Poster Presentation on NANO 2010: Achieved on 16th December 2010 at KSR, Thiruchengode. *Best Paper Award: Won on 28th September 2019 from ESN Awards. Outstanding Contribution Award: Received in 2013 and 2017 from KCG College of Technology.				

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing		Name of the University	% of Marks / Grades obtained	Class obtained
UG	B.Sc	General Chemistry	2001	M.R.G .Arts college , Mannargudi	Bharathidasan University	68.9%	I
PG		General Chemistry	2003	T.U.K.Arts and Science College, Thanjavur	Bharathidasan University	76.1%	I
	M.Phil.	Organic Chemistry	2005	Bharathidas an University	Bharathidasan University	82.1%	I st Class Distinctio n
Ph.D.	Ph.D.	Material Science	2020		Bharathiar University	Commend able	

Academic Experience:

Name of the Callege	Designation	Joining	Relieving	Experience		
Name of the College	Designation	Date	Date	Years	Months	Days
Periyar E.V.R Arts and Science College, Trichy.	Lecturer	19.09.2003	02.09.2005	2	2	
KCG College of technology, Chennai.	Assistant Professor	16.08.2007	19.09.2023	16		
Sri Sairam Engineering College	Assistant Professor	17.12.2024	Till date	1		
			Total	19	2	

Workshops/Seminars attended:

- One Day Workshop on Cheminformatics, Madras Christian College (12-10-2019).
- Instrumental Methods of Analysis, NIT, Tiruchirappalli (24-01-2019 to 26-01-2019).
- Dr. V. Andal, Dr. R. Lakshmipathy, Dr. K. Suba (KCG College of Technology, Department of Science and Humanities Chemistry). *PALS-Virtual Labs Development Initiative* (March 2023 July 2023). *Experiment Development Concept Stage: Conductometric Titration of Mixture of Acids vs Strong Base* (Experiment ID: NITK PALS 23 002 1).

FDP/STTP Attended:

• AICTE NPTEL. (October 2024). Basic Environmental Engineering and Pollution Abatement.

- "Integrating Cutting-Edge Technical Tools for Enhanced Research and Teaching Excellence", SRM Institute of Science and Technology, Ramapuram, Chennai (12/02/2024 27/02/2024). *Materials Science*.
- **AICTE NPTEL**, *Energy & Environment*, NPTEL (19/01/2024 27/04/2024).
- Energy and Environment, NITTTR Chennai (10/06/2024 14/06/2024). Energy and Environment.
- **Advanced Tools and Techniques for Research Methodology**, Research Foundation of India (03/06/2024 12/06/2024). *Advanced Tools and Techniques for Research Methodology*.
- **Recent Advancements in Chemistry**, Easwari Engineering College (24/06/2024 29/06/2024). *Materials Science*.
- Advancements in Additive Manufacturing and Nano-Science Technologies, SRM Institute of Science and Technology, Vadapalani campus (09/10/2023 14/10/2023). *Additive Manufacturing Materials Science*.

Symposium Attended:

Conference Attended:

- ICIATI-2020, KCG College of Technology, AICTE (12-06-2020 to 13-06-2020). International Conference on Integration of Advanced Technologies for Industry 4.0.
- National Conference on Chemistry Driven Clean Process and Alternate Energies (NCCP), Hindustan University, Chennai (07-02-2018). Presentation: *Investigation of Antimicrobial and Wound Healing Activity of Silver Nanoparticles Loaded Chitosan/Alginate Sponge*.
- **Recent Trends in Nanobiosensors**, University of Madras (22-02-2018 to 23-02-2018). Presentation: *A Review on Nanoparticles and Its Colorimetric Detection of Cation*.
- **ICONN-17**, SRM University (09-08-2017 to 11-08-2017). Presentation: *Acid Fuchsin Schiff Base-Modified Silver Nanoparticles and Its Antimicrobial Efficacy*.
- **EAPP-2016**, Sathyabama University (27-06-2016 to 29-06-2016). Presentation: *Green Synthesis*, Characterization & Antibacterial Studies of Schiff Base Modified Silver Nanoparticles.
- NCRTAC 2016, SRM Easwari Engineering College, Chennai (04-05-2016). Presentation: *Corrosion Inhibition Using Nanomaterials An Overview*.
- NCNER, KCG College of Technology (19-03-2015 to 20-03-2015). Presentation: *Schiff Base (New Fuchsin) Functionalized Silver Nanoparticles*.
- International Conference on Engineering and Technology, Turyaa, Chennai (27-09-2019 to 28-09-2019). Presentation: A Review on Nanoparticles-Based Colorimetric Detection of Toxic Ion Chromium.
- NCGPNM-2014, Hindustan University (08-01-2014 to 09-01-2014). Presentation: *Green Synthesis of Copper Nanoparticles Using the Leaf Extract of Azadirachta Indica and Ocimum Sanctum*.

Completed / Ongoing Projects:

Patent:

- Continuous Transdermal Alcohol Monitoring Device. Indian Patent No. 403826-001. Filed in 2024.
- Synthesis of Nitrogen and Oxygen-Containing Heterocyclic Compounds Using Nanocatalyst and Pharmacological Evaluation for Antidiabetic Activity. Indian Patent No. 202341079731. Published in 2023.

Journal Publications:

- 1.**Suba Kannaiyan**, M.G.K., Gopal, A., Lakshmipathy, R., Ali, D., & Alarifi, S. (2024). Glycine-modified on nanoparticles: A green approach to Pb²⁺ adsorption and bioactivity enhancement. Chemical Papers.
- 2 Jayanthi, G., Andal, V., Prabaharan, M., & **Suba Kannaiyan**, S. (2024). TMAB modified NiFe₂O₄ nanoparticles of Eriochrome Black-T azo dye. Bulletin of the Chemical Society of Ethiopia, 38(6), 1569–1581.
- 3. Nageswara Reddy Gosu, R.R.K.S., Yadav, H., & **Suba, K**. (2024). Spectroscopic elucidation and biological evametal complexes derived from azomethine ligand. Indian Journal of Natural Sciences, 15(83).
- 4 Andal, V., Kannan, K., Selvaraj, V., & **Suba, K**. (2022). Plant-derived nanoparticles for heavy metal remediation (pp. 59–76).
- 5.Kannaiyan, Suba., Kannan, K., & Andal, V. (2022). Green synthesis of phenothiazinium Schiff base and its nano white as a catalyst under solvent-free condition. Materials Today: Proceedings, 55, 267–273.
- 6.**Kannaiyan, Suba**., Easwaramoorthy, K., Kannan, K., & Andal, V. (2020). Synthesis, characterisation, and antifuchsin Schiff base-modified silver nanoparticles. Nanotechnologies in Russia, 15(11), 828–836.
- 7. **Kannaiyan**, **Suba**., Easwaramoorthy, K., & Gopal, A. (2017). Biogenic synthesized silver colloid for colorimet ion and antidiabetic studies. Research on Chemical Intermediates, 43, 2693–2706.
- 8. **Kannaiyan**, **Suba**., Easwaramoorthi, A.G., & Gopal, A. (2016). Corrosion inhibition using nanomaterials: An Journal of Scientific Research and Modern Education (IJSRME).
- 9. Linu, S., **Suba, K**., & Amrutha, R. (2015). Structural and thermochemical analysis of nano-boric acid. Adva. 1086, 128–131.
- 10.**Kannaiyan**, **Suba**., & Easwaramoorthi, A. (2015). Synthesis, characterisation, and antibacterial activities of Sefunctionalised silver nanoparticles. International Journal of PharmTech Research, 8(5), 54–60.
- 11.Sam, L., **Suba, K**., & Amrutha, R. (2013). Comparative study of thermochemical properties of fluorographene A computational approach. Asian Journal of Chemistry, 25 (Supplementary Issue), S430.

Books / Book Chapters:

- Suba, K. (2024). Pharmaceutical Chemistry. JEC Publication. ISBN: 978-93-6175-046-5. https://doi.org/10.581/Zenodo.12737818
- Andal, V., Kannan, K., Selvaraj, V., & Suba, K. (2022). Plant-derived nanoparticles for heavy metal remediation. In S. Dasgupta & A. K. Mukherjee (Eds.),
 Phytonanotechnology: Challenges and Perspectives (pp. 59–76). Elsevier.

lacktriangle	Dr.A.Kulasekaran & Suba.K., (2009) Engineering Chemistry - I & II, Chemistry Lab Manual
	Dhannam Publications
	Awards:
	Startup:
	Webinar:

- Ethics and Values in Technical Education in the Context of National Education Policy **2020**, Centre for Value Based Education, Delhi Technological University (15/04/2021).
- Novel Materials for Energy and Biomedical (Covid-19) Healthcare Applications, M.Kumarasamy College of Engineering, Karur (11/05/2020).
- Advanced Materials and Their Applications, AUXILLIUM College (02/06/2020).
- **Digital Skills for Smart Teaching**, Annamalai University (12/06/2020).
- 3D Printing and Design, Crescent Institute of Science and Technology (06/12/2020).

Resource Person:

Online Courses:

- NPTEL. (October 2024). Basic Environmental Engineering and Pollution Abatement.
- NPTEL, (April 2024)Renewable Energy Engineering: Solar, Wind and Biomass Energy Systems
- NITTR Module 1 Orientation Towards Technical Education & Curriculum Aspects
- Module 2 Professional Ethics & Sustainable Development
- Module 3 Communication Skills, Modes, and Knowledge Dissemination
- Module 5 Technology Enabled Learning and Life-Long Self Learning
- Module 6 Student Assessment and Evaluation
- Module 8 Institutional Management and Administrative Procedures
- Coursera, Israel Institute of Technology: Nanotechnology and Nanosensors, Part 1 (8 weeks)
- Coursera, The University of Manchester: Introduction to Molecular Spectroscopy (8 weeks)
- Coursera, Yale: Introduction to Climate Change and Health (4 weeks)
- Coursera, UC Davis: Materials Science: 10 Things Every Engineer Should Know (4 weeks)
- Coursera, MEPHI: Methods of Surface Analysis (4 weeks)

- Coursera, Georgia Institute of Technology: Material Processing (4 weeks)
- Coursera, American Museum of Natural History: Our Earth's Future (4 weeks)
- Coursera, University of Copenhagen: Air Pollution a Global Threat to Our Health (4 weeks)
- Coursera, Pohang University of Science and Technology: Ferrous Technology I (4 weeks)
- Coursera, Pohang University of Science and Technology: Ferrous Technology II (4 weeks)
- TATA Steel eLearning Program: Heat Treatment of Steel (Completed on 24-04-2020)
- ALISON, Chemistry The Nature of Substances:
- ALISON, Advanced Chemistry 1: