<table>
<tr><td>Name:
Dr K SUBA</td><td colspan="4">Photo
  </td></tr>
<tr><td>Designation:</td><td colspan="4">Associate Professor</td></tr>
<tr><td>Qualification:</td><td colspan="4">M.Sc., M.Phil., Ph.D.</td></tr>
<tr><td>Area of specialization:</td><td colspan="4">Materials Science</td></tr>
<tr><td rowspan="2">Experience:</td><td colspan="2">Industrial Experience</td><td colspan="2">Teaching Experience</td></tr>
<tr><td colspan="2"></td><td colspan="2">19 years and 2 months</td></tr>
<tr><td rowspan="2">Number of workshops / FDP attended:</td><td colspan="2">Number of Workshops</td><td colspan="2">Number of FDPs</td></tr>
<tr><td colspan="2">3</td><td colspan="2">7</td></tr>
<tr><td rowspan="3">Publications:</td><td colspan="2">Conference</td><td colspan="2">Journal</td></tr>
<tr><td>National</td><td>International</td><td>National</td><td>International</td></tr>
<tr><td>3</td><td>7</td><td>3</td><td>10</td></tr>
<tr><td>Books / Book Chapters</td><td colspan="4">2</td></tr>
<tr><td rowspan="2">Patents:</td><td colspan="2">National</td><td colspan="2">International</td></tr>
<tr><td colspan="2">2</td><td colspan="2"></td></tr>
<tr><td>Professional Body Membership</td><td colspan="4">IEEE</td></tr>
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Staff Achievements	*__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 College	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	Bharathidasan University	Bharathidasan University	82.1%	Ist Class Distinction
Ph.D.	Ph.D.	Material Science	2020		Bharathiar University	Commendable	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				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	21,09.2023	01.08.2024			
Sri Sairam Engineering College	Associate Professor		Till date	2	2	
			Total	**20**	**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)
- PALS–Virtual Labs Development Initiative (March 2023 – July 2023) – Experiment Development: Conductometric Titration of Mixture of Acids vs Strong Base (Experiment ID: NITK_PALS_23_002_1) with Dr. V. Andal & Dr. R. Lakshmipathy

FDP / STTP Attended

- AICTE NPTEL – Basic Environmental Engineering and Pollution Abatement (October 2024)
- Integrating Cutting-Edge Technical Tools for Enhanced Research and Teaching Excellence, SRMIST Ramapuram (12/02/2024 – 27/02/2024) – Materials Science
- AICTE NPTEL – Energy & Environment (19/01/2024 – 27/04/2024)
- Energy and Environment, NITTTR Chennai (10/06/2024 – 14/06/2024)
- Advanced Tools and Techniques for Research Methodology, Research Foundation of India (03/06/2024 – 12/06/2024)
- Recent Advancements in Chemistry, Easwari Engineering College (24/06/2024 – 29/06/2024) – Materials Science
- Advancements in Additive Manufacturing and Nano-Science Technologies, SRMIST Vadapalani (09/10/2023 – 14/10/2023) – Additive Manufacturing & Materials Science.
- 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 & Technology (06/12/2020).

Conference Attended:

- National Conference – NCST-25, Sengamala Thayaar Educational Trust Women's College, Sundarakkottai, Thanjavur District (11–12 September 2025). *Invited Participation.*

- ICIATI-2020, KCG College of Technology, AICTE (12–13 June 2020). *International Conference on Integration of Advanced Technologies for Industry 4.0.*

- International Conference on Engineering and Technology, Turyaa, Chennai (27–28 September 2019).
  Presentation: A Review on Nanoparticles-Based Colorimetric Detection of Toxic Ion – Chromium.

- National Conference – 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 (22–23 February 2018).
  Presentation: A Review on Nanoparticles and Its Colorimetric Detection of Cation.

- ICONN-17, SRM University (09–11 August 2017).
  Presentation: Acid Fuchsin Schiff Base-Modified Silver Nanoparticles and Its Antimicrobial Efficacy.
- EAPP-2016, Sathyabama University (27–29 June 2016).
  Presentation: Green Synthesis, Characterization & Antibacterial Studies of Schiff Base Modified Silver Nanoparticles.

- NCRTAC-2016, SRM Easwari Engineering College (04/05/2016).
  Presentation: Corrosion Inhibition Using Nanomaterials – An Overview.

- NCNER-2015, KCG College of Technology (19–20 March 2015).
  Presentation: Schiff Base (New Fuchsin) Functionalized Silver Nanoparticles.

- NCGPNM-2014, Hindustan University (08–09 January 2014).
  Presentation: Green Synthesis of Copper Nanoparticles Using 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:

- Suba Kannaiyan, M.G.K., Gopal, A., Lakshmipathy, R., Ali, D., & Alarifi, S. (2024). *Glycine-modified chitosan-embedded silver nanoparticles: A green approach to Pb^{2+} adsorption and bioactivity enhancement.* Chemical Papers.

- Jayanthi, G., Andal, V., Prabaharan, M., & Suba Kannaiyan, S. (2024). *TMAB modified $NiFe_2O_4$ nanoparticles for the effective removal of Eriochrome Black-T azo dye.* Bulletin of the Chemical Society of Ethiopia, 38(6), 1569–1581.

- Nageswara Reddy Gosu, R.R.K.S., Yadav, H., & Suba, K. (2024). *Spectroscopic elucidation and biological evaluation of Cu^{2+} and Mn^{2+} metal complexes derived from azomethine ligand.* Indian Journal of Natural Sciences, 15(83).

- Andal, V., Kannan, K., Selvaraj, V., & Suba, K. (2022). *Plant-derived nanoparticles for heavy metal remediation.* In Phytonanotechnology, pp. 59–76.

- Kannaiyan, Suba., Kannan, K., & Andal, V. (2022). *Green synthesis of phenothiazinium Schiff base and its nano silver complex using egg white as a catalyst under solvent-free condition.* Materials Today: Proceedings, 55, 267–273.

- Kannaiyan, Suba., Easwaramoorthy, K., Kannan, K., & Andal, V. (2020). *Synthesis, characterisation, and antimicrobial efficacy of acid fuchsin Schiff base-modified silver nanoparticles.* Nanotechnologies in Russia, 15(11), 828–836.

- Kannaiyan, Suba., Easwaramoorthy, A.G., & Gopal, A. (2017). *Biogenic synthesized silver colloid for colorimetric sensing of dichromate ion and antidiabetic studies.* Research on Chemical Intermediates, 43, 2693–2706.

- Kannaiyan, Suba., Easwaramoorthi, A.G., & Gopal, A. (2016). *Corrosion inhibition using nanomaterials: An overview.* International Journal of Scientific Research and Modern Education (IJSRME).

- Linu, S., Suba, K., & Amrutha, R. (2015). *Structural and thermochemical analysis of nano-boric acid.* Advanced Materials Research, 1086, 128–131.

- Kannaiyan, Suba., & Easwaramoorthi, A. (2015). *Synthesis, characterisation, and antibacterial activities of Schiff base (New Fuchsin) functionalised silver nanoparticles.* International Journal of PharmTech Research, 8(5), 54–60.

- Sam, L., Suba, K., & Amrutha, R. (2013). *Comparative study of thermochemical properties of fluorographene at different temperatures: A computational approach.* Asian Journal of Chemistry, 25 (Supp. 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 heavymetal remediation. In S. Dasgupta & A. K. Mukherjee (Eds.),
  Phytonanotechnology: Challenges and Perspectives (pp. 59–76). Elsevier.

- Dr.A.Kulasekaran & **Suba.K.,**(2009) Engineering Chemistry - I & II, Chemistry Lab Manual.
  Dhannam Publications.

ONLINE COURSE -
Completed On
NPTEL

- Basic Environmental Engineering and Pollution Abatement
- Renewable Energy Engineering_ Solar, Wind And Biomass Energy Systems
- Non-conventional energy Resources
- United Nations Sustainable Development Goals (UN SDGs)
- Waste to Energy Conversion
- Integrated Waste Management for a Smart City
- Environmental Quality Monitoring & Analysis
- Top mentor - EVS

- Top mentor -United Nations Sustainable Development Goals (UN SDGs)
- NPTEL BELIEVER

Coursera

- Coursera – Nanotechnology and Nanosensors, Part 1 (Israel Institute of Technology, 8 weeks).
- Coursera – Introduction to Molecular Spectroscopy (The University of Manchester, 8 weeks).
- Coursera – Introduction to Climate Change and Health (Yale University, 4 weeks).
- Coursera – Materials Science: 10 Things Every Engineer Should Know (UC Davis, 4 weeks).
- Coursera – Methods of Surface Analysis (MEPHI, 4 weeks).
- Coursera – Material Processing (Georgia Institute of Technology, 4 weeks).
- Coursera – Our Earth's Future (American Museum of Natural History, 4 weeks).
- Coursera – Air Pollution: A Global Threat to Our Health (University of Copenhagen, 4 weeks).
- Coursera – Ferrous Technology I (POSTECH, 4 weeks).
- Coursera – Ferrous Technology II (POSTECH, 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.