

Name : Dr. V. S. Angulakshmi

Designation : Assistant Professor

Department : Chemistry

Qualification : M.Sc., M.Phil., Ph.D

Experience : Teaching -19 Years

Research : 9Years

Area of Specialization(s) : Nanotechnology

Email (Official ID) : angulakshmi@psgrkcw.ac.in



AcademicQualifications

Degree	Branch	Institution/UniversityName	Year of Graduation
Ph.D.	Chemistry	Anna University	2016
M.Phil.	Chemistry	Bharathidasan University	2007
M. Sc.	Chemistry	Bharathiar University	2004
B.Sc.	Chemistry	Bharathiar University	2002

AdditionalQualifications

Diploma/ Vocational/ Certification	Area of Specialization	Institution/University/AgencyName	Year
Certification	Coursera	University of Minnesota	2022
Certification	Coursera	Technical University of Denmark	2022

ResearchGuidance

Programme	No.of Scholars	
	Completed	Pursuing
M.Phil.	-	-

Research Publications (Indexed)

International –15

- **Angulakshmi, VS**, Rajasekar, K, Sathishkumar C &Karthikeyan, S 2013, ‘Growth of vertically aligned carbon nanotubes on a silicon substrate by a spray pyrolysis method’, **New Carbon Materials**, vol. 28, no. 4, pp. 284-288.
- **Angulakshmi, VS**, Karthikeyan, S & Syed Shabudeen, PS 2015, ‘Effect of Synthesis Temperature on the Growth of Multiwalled Carbon Nanotubes from *Zea mays* oil as Evidenced by Structural, Raman and XRD Analyses’, **Rasayan Journal of Chemistry**, vol. 8, no. 1, pp. 1-7
- Karthikeyan KT, **Angulakshmi, VS**, Karthikeyan, S, Jothivenkatachalam, K , & Anandakumar, PA, 2017, ‘Direct growth of vertically aligned carbon nanotubes on silicon substrate by Spray pyrolysis of *Glycine max* oil’, **Bulletin Chemical society of Ethiopia**, vol. 31, no.2, pp. 233-240.
- **Angulakshmi,V S**, Mageswari, S, Kalaiselvan,S, Padmavathi R and Parvathi, K, 2024, Box-Behnken Design for Photocatalytic Degradation of Sudan Black B by Catalyst-Embedded Multiwalled Carbon Nanotubes, **Journal of Environmental Nanotechnology** vol. 13, No. 1, 213 – 225
- **Angulakshmi,V S**, Mageswari, S, Kalaiselvan,S, 2024, Upshot of Temperature on Multi-walled Carbon Nanotubes Synthesized Via CVD Aided Spray Pyrolysis and Its Application towards Lead Ion Removal from Waste Water, **Springer Nature**, Discover Chemistry, vol.1, No. 1, 50.
- Abdelkader Zarrouk N Anusuya, J Saranya , **Angulakshmi,V S**, K Vagdevi, 2025, Experimental and Computational studies on the prevention of mild steel in sulphuric acid medium using Bis-pyrimidine derivatives as corrosion inhibitors, **Journal of Molecular Structure**, 143134

Other Publications: International/National -1

- Anusuya N and **Angulakshmi V S**, 2023 Synthesis and characterization of citric acid assisted manganese oxide nanoparticles, *Advances in Applied Research*, Vol.15, No.1&2, pp 21 – 25

Patent - Nil

S.No	Name of the Faculty	Title of the Invention	Application N o.	Date of Filing	Publication Date
1.					
2.					
3.					

4.					-
5.					

Book Published - Nil

Book Chapter Published -1

- Karthikeyan, S, **Angulakshmi, VS** and Mageswari, S 2019, ‘Carbon Nanotube from Unconventional Precursor-Optimization of Synthesis Parameters, Intech open, Carbon Nanotubes. Book Chapter May 24, 2019.DOI: 10.5772/intechopen.84860

Short Term Course - 3

- Participated in **Short Term Course on "Nanomaterials for Clean and Sustainable Environment"**,organized by the PG & Research Department of Chemistry, PSGR Krishnammal College of Women, Coimbatore from 17th July to 22nd July 2023.
- Participated in **Two week ISTE Short Term Training Programme on Environmental Studies** Conducted by IIT, Bombay from June 2-12,2015.
- Participated in **Two week ISTE Short Term Training Programme on Engineering Physics** Conducted by IIT, Bombay from December 8-18, 2015

Letter of Appreciation

Acted as a Resource Person - 1

- Dr.V.S.Angulakshmi, Assistant Professor, PSGR Krishnammal College for Women, Coimbatore has handled a Webinar entitled “Towards a Sustainable Future” organized by Department of Information Technology, Hindusthan College of Engineering and Technology, Coimbatore on 17.06.2023.

Reviewer in journal -2

Paper Presentations in Conference

International -15

- **Green Synthesis of Cobalt Nanoparticles from Sugarcane Bagasse**, International Conference on Innovative Horizons In Material Research: Growth, Characterization And Applications (ICIHMR-2024) organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai from December 20 & 21, 2024.
- **Green synthesis of cobalt nanoparticles using sugarcane bagasse extract and its antibacterial activity**” 2nd International Virtual Conference on Materials Science and Applications (ICMSA’24) organized by PG & Research Department of Physics, Seethalakshmi Ramaswami College, Tiruchirappalli, Tamil Nadu, India, during 1st – 2nd February 2024.
- **Chemical Synthesis and Characterization of Copper oxide Nanoparticle**, International Conference on Materials for Energy Generation and Storage, organized by the Department of Physics, Loyola College on March 16, 2023.
- “Optimization of CVD Synthesis conditions for Synthesis of Multiwalled Carbon Nanotubes using Response Surface Methodology” *International Conference on Chemical and Environmental Research (ICCER-2014)* held at Jamal Mohamed College, Trichy from 11th & 12th March 2014.

National -8

- Facile synthesis, Characterization of nickel oxide nanoparticles prepared by chemical precipitation method, **National level conference on Advanced Materials for Strategic Application and Sustainable Future**, held on 16th and 17th December 2022, KPR Institute of Engineering and Technology
- “Study of Catalyst effect on the growth of Multiwalled Carbon Nanotubes” **National Level Conference on New Horizons in Chemical Sciences (NHCS-2017)**, held on 6th and 7th January, 2017 at Vivekanandha College of Arts and Sciences for Women, Namakkal.
- “Performance of Carbon Based Dye-Sensitized Solar cells by Inclusion of Modified Low Cost Carbon Nanotubes”, *National Conference on Current Scenario in Material Chemistry CSIMC2015, held at Trichy from Feb 9&10, 2015.*
- “Synthesis of Multiwalled Carbon Nanotubes from Glycine max oil & their Potential Application”, *3rd National conference on Innovation in Indian Science, Engineering & Technology* held at Delhi, from 25-27 Feb, 2013.
- “Synthesis of Multiwalled Carbon Nanotubes from Renewable Energy Resource & its Adsorption Properties” *National Conference on Recent Applications of Nanomaterials in Chemistry & Environment Research. (RANCER 2011)* held at Kongu Engineering College, Erode from 18 & 19 Feb 2011.

Presentations in Seminar Nil

Participation in Conference Nil

Participation in Seminars - 3

- Participated in **Third National Level Seminar on Automation in Emerging Technologies (AIET'13)** held on 2nd March 2013 organized by the Department of Electrical and Electronics Engineering, Kathir College of Engineering, Coimbatore.
- Participated in **“A One day National seminar on Nanomaterials Research”** on 21st February 2015 organized by Sri Ramakrishna Engineering College, Coimbatore.
- Participated in **One day National Level Seminar on Heuristic Approach on Nano based Batteries and Green Chemistry** organized by the Department of Chemistry on 8th February 2019 at Park College of Engineering and Technology, Coimbatore

Participation in Workshop – Nil

- Participated in SERB sponsored **National Workshop on Electroanalytical Techniques and their Applications**, Organized by Post Graduate and Research Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore on 18.11.2022 & 19.11.2022.
- Participated in **one day workshop on Intellectual Property Rights and Innovations** organized by Centre for Intellectual Property Rights, Anna University, Chennai and Kathir College of Engineering, Coimbatore on 16th December 2017.
- Participated in **One day National level Workshop on Instrumentation Techniques for Advanced Research** on 28th July 2017 organized by Sri Venkateswara College of Engineering, Chennai.

Participation in Faculty Development Programme - 12

- Participated in **AICTE-Sponsored Faculty Development Program for students Induction Program for AICTE approved Institutions** conducted by the Department of Automobile Engineering held during 13-15th July 2018 at PSG college of Technology.
- Participated in **Six Day Faculty Development Program On “Advances in Analytical Techniques”** organized by the Department of Chemistry, SRM Institute of Science and Technology, Ramapuram campus, Chennai in association with Society for Advancement in Chemical Sciences and Education (SACSE), IGCAR, Kalpakkam from 25th July 2022 to 30th July 2022.
- Participated in **Five days Faculty development programme on “Energy Materials for Sustainable Environment”** organized by Division of Chemistry, School of Advanced studies during 19-23 June, 2023 at Vellore Institute of Technology, Chennai.
- Participated in **Two week Online Faculty development Programme on Frontiers in Materials Research, Innovations and Entrepreneurship** organized by the Department of humanities and Science, Sri Sairam Engineering College, Chennai from 25.7.24 to 8.8.24
- Participated in **Six Days Faculty Development Program on Recent Advances, Trends, and Challenges in Nanomaterials Characterization and Techniques (RCNMCT–2024)** held from 9th to 14th September 2024 organized by the Department of Physics, Koneru Lakshmaiah Education Foundation, Guntur-522302, AndhraPradesh, India

Participation in Webinar - 7

- Participated in one day **National Webinar Entitled Research Publication: Skills, Ethics and Misconducts**, Organized by the Department of Chemistry, Kumaraguru College of Technology, and Coimbatore, held on 15th May 2020.
- Participated in one-day National **Webinar on Frontiers in Functional Materials**, organized by the Department of Chemistry, Marudhar Kesari Jain College for Women, Chennai, held on 11th October 2022

Conference/Seminar/WorkshopOrganized -2

- Organized **Five Day Faculty development Programme** on Advanced Materials Science Research from 29.07.2024 to 2.8.2025
- Successfully organized the **International Conference "Advanced Materials for Sustainable Technologies"** from 23 – 24 January 2025 sanctioned by the Department of Science and Technology (DST-ANRF) & TNSCST.

Grants -Nil

Membership in Professional Bodies

Name of the Professional Body	Nature of membership	Duration
Association of Chemistry Teachers	Life time member	-
Indian Science Congress Association	Life time member	-

Awards/Honors

Awards/Honors	Agency/Institute	Year of Award
Best Reviewer	Material Science Research India	2023

Indexing and Citations 84

- h-index - 5
- i10 index - 5

Contribution

- Department Association In-charge (2024-25)

- Department coordinator for DST FIST