

Faculty Profile



Name Sr. S. Sahaya Leenus

Designation : Assistant Professor

Department : Chemistry

Date of Birth : 30.04.1982

Date of Appointment : 15.06.2016

Academic

S. No	Degree	University / Institution	Year of Completion
1	B.Sc.	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam.	2006
2	M.A(Christian Studies)	Madras University, Chennai.	2008
3.	Formators Course	Beschi College Dindugal	2009
4.	B.Ed.	Mahatma College, Pudukkottai.	2010
5.	M.Sc.	Jayaraj Annapackiam College for Women (Autonomous), Periyakulam.	2014
6.	M.Phil.	M.K.U, Madurai	2017
7.	S.E.T	Mother Therasa Women's University, Kodaikannal.	2017
8.	(Ph.D)	Karunya	2019 onwards

	University,Coimbatore.	
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Total Experience : UG: 08 year PG: 08 year M.Phil: 04 Year

Area of Specialization/Interest : Electro Chemistry & Nanotechnology

Professional Affiliation

S.NO	YEAR	PROFESSIONAL AFFILIATION
1.	2016-17	Member in Xavier board of higher Education and Campus ministry
2.	2017 - 18	Member in Xavier board of higher Education and Campus Ministry
3.	2018 - 19	Member in Xavier board of higher Education and Campus Ministry& Press committee
4.	2019 - 20	Member in Fine arts and Press Committee
5.	2020 - 21	Coordinator in Entrepreneurship Cell & member in Fine arts
6.	2021-22	Coordinator in Entrepreneurship Cell & member in Fine arts
7.	2022-23	Coordinator in Entrepreneurship Cell & member in Fine arts
8.	2023 -24	Member in Fine arts

Research Publications:

International Publications : 10

1. T. Johny Dathees, **S.Sahaya Leenus**,R.Anitha, C.Sagaya Rani, Plant mediated synthesis of silver nanoparticles and their biological activities: 5(3) May-June 2016, ISSN 2319-8141, 249-258.
2. T. Johny Dathees, **S.Sahaya Leenus**,J.Jenifer,K.Kharaniya, Green synthesis of silver nanoparticles, International Journal of Universal Pharmacy and Biosciences:5(6), November-December 2016, ISSN 2319-814, 146-157.
3. **S.SahayaLeenus**,T.Johny Dathees,P.Nivetha,S.Ilakkiya,Green Synthesis of Silver Nanoparticles and their Antimicrobial Activity, Journal of Emerging Technologies and Innovative Research (An International Open Access Journal & UGC and ISSN Approved), ISSN: 2349-5162, Vol. 6, Issue.3March 2019.

4. T.JohnyDathees, **S.SahayaLeenus**,S.MariaEsther,P.Revathi ,Photodegradation of Methylene Blue in the presence of Solar Light using CdO Nanocatalyst ,Journal of Emerging Technologies and Innovative Research (An International Open Access Journal & UGC and ISSN Approved), ISSN: 2349-5162, Vol. 6, March 2019.
5. **Sr.S.SahayaLeenus***, Devasahaya Maryl, T. Madhumitha²,P.Mageshwari³, Sr.T. Johny Dathees⁴ Green Synthesis Of Silvernanoparticles Using MuntingiaCalabura L, (Fruits)Citrus Reticulata leaves and Their Antimicrobialactivity (An International Open Access Journal & UGC and ISSN Approved) 2020 JETIR January 2020, Volume 7, Issue 1 www.jetir.org (ISSN-2349-5162)
6. Sr.T.Johnydathees,S.vinitha,J.Vijayalakshmi, **Sr.S.SahayaLeenus** “Green synthesis of copper oxide nanoparticles and their antimicrobial activity”in the journal of Emerging Technologies and innovative Research,7(1)2020,pp 831-840,ISSN No 2349-5162.
7. Jovitha Jane David^a, Asath Murphy Maria Stephen^a, Riju Suguna Robin^a, **Sahaya Leenus Sebastian^a**, Jegathambal Palanichamy^b, Parameswari Kalivel^{a*} “Comparative study on the electrocatalytic activity of dissimilar electrode combinations for the treatment of textile effluent by electrocoagulation process and their subsequent reuse” Iranian Journal of Catalysis 13 (3), August 2023. (DOI: 10.30495/IJC.2023.1991117.2022)
8. Jovitha Jane David^a, Asath Murphy Maria Stephen^a, Riju Suguna Robin^a, **Sahaya Leenus Sebastian^a**, Jegathambal Palanichamy^b, Parameswari Kalivel^{a*} “An Attempt to Reduce the Electrocoagulation Costs and to Ensure the Reuse of Treated Aqueous Dye Solution” Nature Environment and Pollution Technology An International Quarterly Scientific Journal, e-ISSN: 2395-3454, Vol. 22,(3), pp. 1277-1288, 2023. <https://doi.org/10.46488/NEPT.2023.v22i03.015> .
9. M.S. Asath Murphy^a, D.Jovitha Jane^a, **S.Sahaya Leenus^a**, Riju S. Robin^a, Jegathambal palanichamy ^b& Parameswari Kalivel ^{a*}, “Electrochemical treatment of textile wastewater using copper electrodes” Journal of Environmental Science and Health Part A, October 8, 2023, <https://doi.org/10.1080/10934529.2023.2274257>
10. **Sahaya Leenus Sebastian^a**, Parameswari Kalivel ^{a*}, Kavitha Subbiah^b, Jovitha Jane David^a, Asath Murphy Maria Stephen^a, Jegathambal Palanichamy^c, “Electrocoagulation using Ti/Ti for the remediation and reuse of aqueous

Dispersive Blue-79” Journal of Environment Monitoring Assessment (2024) 196:177.

<https://doi.org/10.1007/s10661-024-12320-y>

Patent:

S.No	Published / Granted	Title	Patent No & Application No
1	Granted Date of Grant : 08/11/2023	“A cost effective and low power consuming textile effluent treatment method for effluent reclamation”	467218 202241061578

Project:

S.No	Funded by	Project No	Title	Year	Outlay
1	Jayaraj Annapackiam College for Women Autonomous, Periyakulam , Theni	JAC/2022-2023/JACFRP-Scholar/7	“Treatment of textile waste water by electrocoagulation process”	30.09.2022	10,000/-
2	Tamil Nadu State Council for Science and Technology	TNSCST, ES-326	“Reuse of Textile Waste Water by Electrocoagulation Using Alternative Electrodes”	March 2023.	7500/-

Seminars/Conferences/Workshops Participated:

Year	Title of the Paper	Seminar	Place & Date	Level
2016-2017	Green synthesis of silver nanoparticles	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	PG and Research Centre of Chemistry, J A College, Periyakulam on 11 th and 12 th January 2017	National
2017-2018	-	Workshop on Statistics using Excel and SPSS in Collaboration with AIMST University	17.01.2018 to 19.01.2018 Jayaraj Annapackiam College For Women, Periyakulam	International
2017-	-	National Seminar	23.01.2018	National

2018		on Recent Trends in Chemistry (RTC-8)	Jayaraj Annapackiam College For Women, Periyakulam.	
2017-2018	-	Workshop on women in science and Research	19.02.2018 & 20.02 .2018 IQAC in collaboration with United states India Educational foundation, Chennai.	National
2018-2019	-	Educating Educators on Psycho Spiritual Mentoring	19.07.2018 to 20.07.2018 & 10.10.2018 to 12.10.2018 Christian Studies and Counseling Psychology, university of Madras, Chennai	National
2019-2020	-	National Seminar on Recent Trends in Chemistry (RTC-10)	10.12.2019 Jayaraj Annapackiam College For Women, Periyakulam	National
	-	NAAC Sponsored National Seminar on Quality in Teaching and Research.	03-02-2020, Mother Theresa Women's University, Kodaikannal.	National
	-	Effective usage of ICT Tools for E-Content preparation (Online course)	27-04-2020 to 02-05-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam.	National
	-	Digital Tools For Smart Classroom In Higher Education (Online	06-05-2020 to 07-05-2020 Jayaraj Anna Packiam College For Women	National

		course)	Autonomous ,Periyakulam.	
-		National webinar on outcome based education (Online course)	22-05-2020 to 29-05-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	National
-		“Free statistical tool for research data analysis and research publication with special reference to citation ,impact factor and h index” (Online course)	01 &02-06-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	National
-		“Let us lockdown the stress” (Online course)	05 & 06 -06 -2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	National
-		“Functional properties of bandgap engineering of ZnO and GaN Alloy” (Online course)	08-06-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	International
-		“Organic foods and healthy life style” (Online course)	10-06-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	National
-		“Porous carbon based nano	11& 12 -06 -2020 Jayaraj Anna Packiam College For Women	International

		composite for energy storage and sensing” “Chemical biology of covid 19” (Online course)	Autonomous ,Periyakulam	
	-	“Women in Entrepreneurship ” (Online course)	15-06-2020 Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	National
2020 - 2021	-	National Seminar on Recent Trends in Chemistry –I- 2	11.03.2021& 12.03.2021 Jayaraj Annapackiam College For Women, Periyakulam	International
	Removal of pollutants from a real textile dyeing waste water using stainless steel electrode in electrocoagulation.	Challenges and Opportunities in Water and Wastewater Management & World Water Day Celebration.(Online) International Webinar on Advancements in Chemical Sciences : Research Prospects and Career Options	29.03.2021&30.03.2021 Karunya Institute of technology and Sciences.Karunya University. Coimbatore. 17.06.2021. Karunya Institute of technology and Sciences.Karunya University. Coimbatore 14.	International International
2021 -2022	Efficacy of Electrocoagulation in removal of dye pollutants from synthetic dye	In Association with Alternative Energies and Atomic Energy Commission (CEA), Universite Gustave Eiffel,	17-19th February 2022. Department Of Chemistry SRM Institute Of Science And Technology	International

	solution using Ti Electrodes	France.(Online)	Kattankulathur – 603 203	
	Treatment of Dispersive Dyeing Effluent by a Hybrid Electrocoagulation	Two days National Virtual Conference On Emerging Trends in Chemical Sciences.(NCETC -22)	25 & 26 th march 2022 Karpapagam Academy of Higher Education.(Deemed to be university)Coimbatore . Department of Chemistry, Emerging Trends in Chemical Sciences.	National
2022-2023	Faculty induction programme	UGC-HRDC Pondicherry university 9 th FIP programme	03 rd Nov to 02 Dec 2022, UGC-HRDC Pondicherry university 9 th FIP programme.	FIP Programme
2023-2024	Poster Presentation	Second International Conference on Frontiers in Chemical Sciences (ICFCS-2023)	26 th & 27 th October 2023. Organized by Department of Applied Chemistry. Karunya Institute of technology and Sciences.Karunya University. Coimbatore 14.	International

Conference Presentations:

Year	Title of the Paper	Seminar	Place &Date
2016-2017	Green synthesis of silver nanoparticles	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-7)	PG and Research Centre of Chemistry, J A College, Periyakulam on 11 th and 12 th January 2017
2017-2018	Production and characterization of milk clotting enzyme from Moringa Oleifera Seeds	UGC Sponsored National Seminar on Recent Trends in Chemistry (RTC-8)	23.01.2018 Jayaraj Annapackiam College For Women, Periyakulam (National)

	Extract		
2018-2019	Green Synthesis of Silver Nano Particles and Their Antimicrobial Activities	Nano national summit - current trends and future perspective's	Holy Cross College ,Trichy 10-01-2019(National)
2019-2020	Green Synthesis of Silver Nanoparticles using <i>Celosia Spicata</i> <i>Flamingo</i> and their Antimicrobial Activity.	National Seminar on Recent Trends in Chemistry (RTC-10)	10.12.2019 Jayaraj Annapackiam College For Women, Periyakulam (National)
2020-2021	Romoval of pollutants from a real textile dyeing waste water using stainless steel electrode in electrocogulation.	International Conference on Challenges and Opportunities in Water and Wastewater Management &World Water Day Celebration.(Online)	29.03.2021 - 30.03.2021 Karunya Institute of technology and Sciences.Karunya University. Coimbatore.(International)
2021-2022	Efficacy of Electrocoagulation in removal of dye pollutants from synthetic dye solution using Ti Electrodes.	In Association with Alternative Energies and Atomic Energy Commission (CEA), Universite Gustave Eiffel, France.(Online)	17-19th February 2022 Department Of Chemistry SRM Institute Of Science And Technology Kattankulathur – 603 203. (International)
2021-2022	Treatment of Dispersive Dyeing Effluent by a Hybrid Electrocoagulation	Two days National Virtual Conference On Emerging Trends in Chemical Sciences.(NCETC-22)	25 & 26th march 2022 Karpapagam Academy of Higher Education.(Deemed to be university)Coimbatore. (International)
2023-2024	Poster Presentation	Second International Conference on Frontiers in Chemical Sciences (ICFCS-2023)	26 th & 27 th October 2023. Organized by Department of Applied Chemistry. Karunya Institute of technology and Sciences.Karunya University.

			Coimbatore 14. (International)
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Research Experience: 08 Year

Research Guidance:

No. of PG projects guided: 11

Books Published :

S.No	Title	ISBN No	Year
1	Value Education	978-81923121-4-9,	2017-2018.
2	Allied chemistry Volume -1	978-81-2344-024-9,	2020-2021.
3	Allied chemistry Volume -11	978-81-2344-109-2,	2021-2022.
4	Entrepreneurship Skills in Chemistry	978-81-19042-76-0,	2023-2024

Resource Person:

2018-2019	Resource Person for SET/NET Coaching	Jayaraj Annapackiam College For Women, Periyakulam.
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Organised:

S. No.	Title of the Programme	Institution/Venue	Date
1	Served as a Co - Coordinator for the In-service training programme for science teachers, Theni Dist, Catalysed and supported by Tamil NADU state Council for Science and Technology, Chennai.	Jayaraj Annapackiam College For Women, Periyakulam.	18.02.2019 to 22.02.2019
2	Served as an Organizing Secretary, Two Day International Webinar organized by PG and Research Center of Chemistry,	Jayaraj Anna Packiam College For Women Autonomous ,Periyakulam	11 -06 2020 &

	<p>“Porous carbon based nano composite for energy storage and sensing”</p> <p>“Chemical biology of covid 19” (Online course)</p>		12-06-2020
3	<p>Served as a convener, One day International webinar, Recent Trends in Chemistry, organized by PG and Research Centre of Chemistry, and Jyoti Nivas College, Autonomous, Bangalore.</p> <p>“Recent Advances of Green synthesis”</p> <p>Protective fabrics/ composites for efficient multifunctional applications.</p>	PG and Research Centre of Chemistry, and Jyoti Nivas College, Autonomous, Bangalore.	19.12.2022

Contact Details:

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J.A.College for women autonomous,
Periyakulam,
Theni (Dt)- 625601.**

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philoleenus@gmail.com**