


FACULTY PROFILE

NAME	Dr. Sarada Karangadan	
DESIGNATION	Asst. Prof.	
QUALIFICATION	Ph.D	
EMAIL ID	saradagns@gmail.com	
ADDRESS	Sarada Bhavan, Thenhipalam, Malappuram PIN: 673636	

POSITIONS HELD IN COLLEGE

- Resident Tutor

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TEACHING INTERESTS

Physical Chemistry, Computational Chemistry, Nano Chemistry, Green Chemistry, Supramolecular Chemistry

RESEARCH AREAS

Physical Chemistry , Computational Chemistry, Nano Chemistry

RESEARCH GUIDESHIP AND CENTRE

RESEARCH CENTRE : St. Joseph's College Devagiri, Calicut

MEMBERSHIPS IN BOARD/ ASSOCIATION/ PROFESSIONAL AFFILIATIONS

- Board of Studies Member for the course Applied chemistry, University of Calicut.

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INVITED TALKS/IN MEDIA/ANY OTHER

- Subject Expert for EMMRC, University of Calicut (SWAYAM PRABHA DTH channel)

- **Resource person “ Sastrajalakam”**
- **Resource person “ Sastrapadham”**

JOURNAL PUBLICATIONS

SL.NO.	TITLE	NAME OF JOURNAL / VOL. NO / ISSUE NO / PAGE NOS	ISSN NO	MONTH / YEAR
1.	One-pot synthesis of poly vinyl alcohol (PVA) supported silver nanoparticles and its efficiency in catalytic reduction of methylene blue	Trans. Nonferrous Met. Soc. China 26(2016) 2693–2700	Elsevier ISSN 1003-6326	2016
2.	Thermal degradation and optical properties of SiC-infused polystyrene nanocomposites	Journal of Thermal Analysis and Calorimetry 126 (2016) 1809–1819	Elsevier ISSN 1388-6150	2016
3.	Exploration of the thermal decomposition of oxalates of copper and silver by experimental and computational methods	Journal of Analytical and Applied Pyrolysis 120 (2016) 207–214.	Elsevier ISSN 0165-2370	2016
4.	Synthesis, characterization and thermal dehydration and degradation kinetics of chitosan Schiff bases of o-, m- and p-nitrobenzaldehyde	Polymer Bulletin (2016) doi.10.1007/s00289-016-1696-1	Springer ISSN 0170-0839(print)1436-2449(online)	2016
5.	Effect of addition of silver on the thermal decomposition kinetics of copper oxalate	Journal of Thermal Analysis and Calorimetry, (2016) 123:643–651.	Springer ISSN 1388-6150(Print) 1588-2926(Online)	2016
6.	Kinetic Studies on the Thermal Dehydration and Degradation of Chitosan and Citralidene Chitosan	J Polym Environ, (2014) doi. 10.1007/s10924-014-0665-8	Springer ISSN 1566-2543(Print) 1572-8900(Online)	2014
7.	Isothermal decomposition of K ₂ C ₂ O ₄ . Effect of metal oxide additives on the decomposition kinetic	J Therm Anal Calorim, (2014) 116:1055–1060 doi. 10.1007/s10973-013-3573-6	Springer ISSN 1388-6150(Print) 1588-2926(Online)	2014

CONFERENCE PUBLICATIONS

SL.NO.	TITLE	NAME OF CONFERENCE	VENUE, MONTH / YEAR
1.	Effect of γ -ray irradiation on the thermal decomposition of KIO ₃	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences" , 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore

2.	Kinetic studies on isothermal decomposition of sodium oxalate	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences" , 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore
3.	Synthesis of oxide nanoparticles via thermal decomposition of mixed oxalates	Proceedings of the International Conference on Advances in New materials (ICAN 2014), June 20 & 21, 2014	Dept. of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai
4.	Dehydration and degradation kinetics of chitosan Schiff bases of o- and m- nitrobenzaldehyde	International Conference on Emerging Environmental & Advanced Oxidation Technologies for Energy, Environment and Sustainability (EEAOTTEES 2014)	Anna University, Chennai. 29-30 September 2014
5.	Synthesis, Characterisation and thermal degradation kinetics of Chitosan-Schiff base of m-methoxybenzaldehyde.	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut
6.	Thermal decomposition kinetics of co-precipitates of copper and silver oxalates	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut
7.	Electroless palladium plating on silver powder	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut
8.	Synthesis and characterization of Ag0/PVA nanocomposite	Proceedings of the National Seminar on "Recent Advances in Chemistry", Sponsored by UGC, 13-14 Aug. 2015,	Kandaswami Kandar's College, Namakkal. TN
9.	Thermal degradation kinetics of SiC Infused Polystyrene nanocomposites	THERMANS-2016 DAE-BRNS Twentieth Symposium & Workshop on Thermal Analysis , Jan 18-20,2016	Indian Institute of Technology, Varanasi
10.	Synthesis of copper oxide nanoparticles via Thermal decomposition of copper oxalate	National Seminar on "RECENT ADVANCES IN CHEMISTRY" (NSRAC-15), 19th August 2015, St. Mary's College	Thrissur, Kerala
11.	Thermal decomposition of gamma-irradiation potassium titanium oxalate	Thunchan college	Thirur, Kerala
12.	Electronic structure calculation of anhydrous copper and silver oxalate to predict the thermal decomposition	UGC Sponsored National Seminar on the topic "Chemistry for a Sustainable Future " on 13th and 14th October 2015. Dept. of chemistry, little flower college.	Guruvayoor, Kerala
13.	Mixed metal oxides of Lanthanum and Copper as burn rate modifiers – A catalytic study	International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015), 28 - 30th December, 2015.	Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai -
14.	Studies on the kinetics of thermal decomposition of copper oxalate mixed with silver oxalate	International Conference on " Recent Advances in Material and Chemical Sciences, March 2-5, 2016.	Bundelkhand University, Jhansi, U.P

BOOKS AS AUTHOR/EDITED/CHAPTERS/REVIEWS

SL.NO	TITLE	AUTHOR NAMES	ISBN NO.	MONTH/ YEAR
1.	Proceedings of NATIONAL SEMINAR ON RECENT TRENDS IN MATERIALS SCIENCE (NSRTMS-2019)	Dr. Sarada Karangadan	ISBN: 978-93- 5391-561-2	5th – 6th December, 2019

SEMINARS ORGANIZED

SL.NO	NAME OF THE SEMINAR	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE	POSITION HELD	LEVEL *
1.	NATIONAL SEMINAR ON RECENT TRENDS IN MATERIALS SCIENCE (NSRTMS-2019)	Dept. of Chemistry Govt. College Chittur Palakkad- 678104 Kerala Sponsored by Directorate of Collegiate Education Govt. of Kerala	Govt. College Chittur 5th – 6th December, 2019	Coordinator	
2.					
3					

***state/national/international**

E-CONTENT DEVELOPED

SL.NO	SUBJECT	TOPIC	WEBSITE LINK
1.	Chemistry	Group Theory	SWAYAM PRABHA DTH channel
2.			

PAPER PRESENTATION AT STATE / NATIONAL/ INTERNATIONAL PROGRAMMES

SL.NO	TITLE OF THE PAPER	NAME OF THE INSTITUTION	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE
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1.	Effect of γ -ray irradiation on the thermal decomposition of KIO ₃	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences", 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore	
2.	Kinetic studies on isothermal decomposition of sodium oxalate	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences", 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore	
3.	Synthesis of oxide nanoparticles via thermal decomposition of mixed oxalates	Proceedings of the International Conference on Advances in New materials (ICAN 2014), June 20 & 21, 2014	Dept. of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai	
4.	Dehydration and degradation kinetics of chitosan Schiff bases of o- and m-nitrobenzaldehyde	International Conference on Emerging Environmental & Advanced Oxidation Technologies for Energy, Environment and Sustainability (EEAOTEES 2014)	Anna University, Chennai. 29-30 September 2014	
5.	Synthesis, Characterisation and thermal degradation kinetics of Chitosan-Schiff base of m-methoxybenzaldehyde.	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
6.	Thermal decomposition kinetics of co-precipitates of copper and silver oxalates	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
7.	Electroless palladium plating on silver powder	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
8.	Synthesis and characterization of Ag ₀ /PVA nanocomposite	Proceedings of the National Seminar on "Recent Advances in Chemistry", Sponsored by UGC, 13-14 Aug. 2015,	Kandaswami Kandar's College, Namakkal. TN	
9.	Thermal degradation kinetics of SiC Infused Polystyrene nanocomposites	THERMANS-2016 DAE-BRNS Twentieth Symposium & Workshop on	Indian Institute of Technology, Varanasi	

		Thermal Analysis , Jan 18-20,2016		
10.	Synthesis of copper oxide nanoparticles via Thermal decomposition of copper oxalate	National Seminar on“RECENT ADVANCES IN CHEMISTRY” (NSRAC-15), 19th August 2015,St. Mary’s College	Thrissur, Kerala	
11.	Thermal decomposition of gamma-irradiation potassium titanium oxalate	Thunchan college	Thirur, Kerala	
12.	Electronic structure calculation of anhydrous copper and silver oxalate to predict the thermal decomposition	UGC Sponsored National Seminar on the topic “Chemistry for a Sustainable Future “ on 13th and 14th October 2015.Dept. of chemistry, little flower college.	Guruvayoor, Kerala	
13.	Mixed metal oxides of Lanthanum and Copper as burn rate modifiers – A catalytic study	International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015),28 - 30th December, 2015.	Department of Analytical Chemistry, University of Madras,Guindy Campus,Chennai -	
14.	Studies on the kinetics of thermal decomposition of copper oxalate mixed with silver oxalate	International Conference on " Recent Advances in Material and Chemical Sciences, March 2-5, 2016.	Bundelkhand University, Jhansi, U.P	

SEMINARS/CONFERENCES/WORKSHOPS ATTENDED

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER& SPONSORING AGENCY	VENUE & DATE	LEVEL *
1	Effect of γ -ray irradiation on the thermal decomposition of KIO ₃	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences", 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore	
2	Kinetic studies on isothermal decomposition of sodium oxalate	Proceedings of the National Seminar on "Emerging Trends in Chemical Sciences", 13-16 Feb. 2013, Mangalore.	St. Aloysius College, Mangalore	

3	Synthesis of oxide nanoparticles via thermal decomposition of mixed oxalates	Proceedings of the International Conference on Advances in New materials (ICAN 2014), June 20 & 21, 2014	Dept. of Inorganic Chemistry, University of Madras, Guindy Campus, Chennai	
4	Dehydration and degradation kinetics of chitosan Schiff bases of o- and m- nitrobenzaldehyde	International Conference on Emerging Environmental & Advanced Oxidation Technologies for Energy, Environment and Sustainability (EEAOTEES 2014)	Anna University, Chennai. 29-30 September 2014	
5	Synthesis, Characterisation and thermal degradation kinetics of Chitosan-Schiff base of m-methoxybenzaldehyde.	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
6	Thermal decomposition kinetics of co-precipitates of copper and silver oxalates	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
7	Electroless palladium plating on silver powder	UGC Sponsored Graduate Seminar on Advances in Materials Chemistry	University of Calicut	
8	Synthesis and characterization of Ag ₀ /PVA nanocomposite	Proceedings of the National Seminar on "Recent Advances in Chemistry", Sponsored by UGC, 13-14 Aug. 2015,	Kandaswami Kandar's College, Namakkal. TN	
9	Thermal degradation kinetics of SiC Infused Polystyrene nanocomposites	THERMANS-2016 DAE-BRNS Twentieth Symposium & Workshop on Thermal Analysis , Jan 18-20,2016	Indian Institute of Technology, Varanasi	
10	Synthesis of copper oxide nanoparticles via Thermal decomposition of copper oxalate	National Seminar on "RECENT ADVANCES IN CHEMISTRY" (NSRAC-15), 19th August 2015, St. Mary's College	Thrissur, Kerala	
11	Thermal decomposition of gamma-irradiation potassium titanium oxalate	Thunchan college	Thirur, Kerala	
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13	Mixed metal oxides of Lanthanum and Copper as burn rate modifiers – A catalytic study	International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015), 28 - 30th December, 2015.	Department of Analytical Chemistry, University of Madras, Guindy Campus, Chennai -	
14	Studies on the kinetics of thermal decomposition of copper oxalate mixed with silver oxalate	International Conference on "Recent Advances in Material and Chemical Sciences, March 2-5, 2016.	Bundelkhand University, Jhansi, U.P	
15	Computing Skills in Chemistry	DCE	Govt. Victoria College 3 Days 16, 17 & 18 Nov 2017	

16	One day workshop on effective classroom teaching	IQAC	Govt. college Chittur 1 Day 01.02.2018	
17	Capacity Building Programme	IMG	IMG Trivandrum 19-21 Feb 2018	
18	Short Term Course: Theme Centered Interaction	DCE Kerala	IQAC, Govt. College Chittur 27.11.2018 – 01.12.2018	
19	Short run course on professional development	TLC PMMMNMTT	Dept. of Education, University of Calicut 22.03.2019 – 28.03.2019	
20	Short run course on “Innovations and Rejuvenation on Teaching in Higher Education”.	TLC PMMMNMTT	Dept. of Education, University of Calicut 12.12.2019-18.12.2019	

OTHER PROGRAMMES ATTENDED

SL.NO	NAME OF THE PROGRAMME	NAME OF THE ORGANISER & SPONSORING AGENCY	VENUE & DATE	LEVEL *
1.	Orientation Programme	UGC	UGC- HRDC University of Calicut 06.01.2020 – 25.01.2020	A+
2.	Refresher Course: Swayam Arpit	AICTE	Sri Guru Tegh Bahadur Khalsa College, University of Delhi 16.02.2020	A