



**Name:** Dr.S. Sudhaparimala

**Qualification:** M.Sc.,SLET.,MPhil.,Ph.D,

**Designation:** Associate professor

**Years of Experience:** UG: 21 PG: 21.

**Previous Experience:** UG:1.5 PG: 1.5

**Area of Specialization:** Physical Chemistry, Nano Chemistry

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## PROJECTS

S.No.	Title	Duration	Funding agency	Amount Sanctioned ( in lakhs)
1	“Functionalization of graphene with heteroatom’s of O, S, N by green method for pollution management and industrial applications”	Two years	Tamil Nadu State Council for Science and Technology (TNSCST) C.No. TNSCST/STP-PRG/AR 2018-2019 9325	Rs.3,40,000/-

## RESEARCH GUIDANCE

Ph.D Awarded	NIL
Ph.D Guiding	TWO
M.Phil Awarded	SIX
M.Phil Guiding	NIL

## WORKSHOPS

S.No.	Organized by	State/National/International	Topic	Date(s)
1.	Department of Chemistry, Ethiraj College for women Chennai	National Online Workshop (Organizing Secretary)	"Refreshing concepts of Classical Statistical Thermodynamics - a numerical approach"	13/08/2020 and 14/08/2020.
2.	PG & Research Department of Chemistry, PSGR Krishnammal College of Women, Coimbatore in collaboration with D.G. Vaishnav College, Arumbakkam, Chennai	National Online Workshop (Attended)	“Computational Chemistry – A Leeway to Theoretical Chemistry”	27.07.2020 to 29.07.2020.

3.	PG & Research Department of Chemistry, Vaishnav College, Arumbakkam, Chennai	National Online Workshop ( <b>Attended</b> )	"Nuances in computational Chemistry"	02/07/2020 to 05/07/2020
4.	Department of Chemistry, Ethiraj College for women Chennai	State level workshop ( <b>Organizing Secretary</b> )	"Principles and applications of spectroscopy –a problem solving approach"	27/01/2020
5	Ethiraj College for Women, Chennai	State level workshop ( <b>Attended</b> )	Workshop on Academics and Research	01/02/2017
6	Ethiraj College for Women, Chennai	State level workshop ( <b>Attended</b> )	Lecture workshop on analytical tools for micro and nanoscale characterization of materials in biological and physical sciences	9/02/2016
7	CSIR-CLRI, Chennai	National level Workshop ( <b>Attended</b> )	Workshop on Practicals and Practices in Chemistry	31/03/2011, CSIR-CLRI, Chennai
8	Sathyabama University	National level Workshop ( <b>Attended</b> )	Lecture -Workshop on small molecule discovery and Chemical Biology	July 2015

### CONFERENCES ATTENDED / PRESENTED PAPER

S.No	Organized by	State/National/International	Participated / Presented	Title	Date(s)
1	PSGR, Department of Physics and Chemistry in collaboration with University of Dares Salaam, Tanzania.	International interdisciplinary virtual conference on "Breakthroughs and Approaches in contemporary Scientific Research"	Presented	"Facile synthesis of sulphonated graphene oxide from fructose for the dye degradation of organic dyes"	17/02/2021 to 19/02/2021
2	SNS college of Technology, Coimbatore	First International Conference on Advances in Physical science and Materials (ICAPSM-2020)	Presented	Energy efficient functionalization of graphene for tunable fluorescence	13/08/2020 to 14/08/2020
3	Akshaya college of Engineering and technology, Coimbatore	Second International Conference on Materials Science and Manufacturing Technology 2020 (ICMSMT 2020)	Presented	Functionalization of Graphene with O and S atoms for tunable fluorescence  Optimization of process and parameters	09/04.2020 to 10/04/2020

4.	Centre for Clean Energy and Nano Convergence	International Symposium on smart materials and Workshop on Chemical Vapor Deposition ( <b>Best research paper award</b> )	Presented	Effect of calcinations temperatures on the phase transition of Hydroxyapatite	Oct 2018
5	Sathyabama University, in association with CSIR-CLRI, India	International conference on Recent trends in Nano science and Nano technology 2015 ( <b>Best research paper award</b> )	Presented	Biological synthesis of nano composite SnO <sub>2</sub> – ZnO: Screening for efficient photocatalytic degradation and antimicrobial activity	July 8th - 10th, 2015
6	Hindustan University, Chennai	International Conference on Materials for Energy and Nano Convergence 2013	Attended	-	July 4-6, 2013
7	IIT, Madras	Medicinal chemistry Conference, 2011	Presented	-	October 28-29, 2011
8	CSIR-CLRI, Chennai	Symposium on Chemistry in Societal and Environmental needs	Attended	-	August 29-31, 2011
9	PG dept. of Botany, Queen Mary's College, Chennai	International conference on impact of physical sciences on Biology	Attended	-	July 7 -9, 2011
10	CSIR-CLRI, Chennai	Workshop on Practicals and Practices in Chemistry			31 <sup>st</sup> March 2011
11	Jadavpur University, Kolkota	12 th International Congress of Ethanopharmacology	Attended	-	February 17-19, 2012, Kolkota
12	University of Connecticut, USA and Bharathi Women's college, Chennai	International conference on Recent trends in Therapeutic advancements of Free radical science	Presented	-	January 9-11, 2011.

### JOURNAL PUBLICATIONS

S.No.	JOURNAL NAME	UGC /SCI/ SCIE/ WOS	ISBN / ISSN NUMBER	REFERENCE	DATE OF PUBLICATION/DOI
1.	Nature environmental and pollution	SCI	0972-6268	<b>S.Sudhaparimala *and R. Usha, Tuning of Carbon microspheres and Graphene</b>	2021

	technology			structures with hetero atoms for organic dye degradation and heavy metal remediation - Influence of fructose as precursor, <b>Nature environmental and pollution technology</b> , 2021. (Accepted under publication)	
2	Material Science Forum	UGC &SCI&W OS	ISSN: 1662-9752	<b>S. Sudhaparimala <sup>1,a</sup> * and R Usha<sup>2,b</sup></b> , <i>Functionalization of Graphene with O and S for Catalytic degradation of Chloropheneols and dyes</i> , <b>Material Science Forum</b> , ISSN: 1662-9752, (2021) Vol. 1019, pp 194-204.	2021/ <a href="https://www.scientific.net/MSF.1019.194">https://www.scientific.net/MSF.1019.194</a>
3	IOP Science: Journal of Physics Conference Series (JPCS)	UGC &SCI&W OS	ISSN: 1742- 6588	<b>S Sudhaparimala and R Usha</b> , <i>Energy efficient Functionalization of Graphene for tunable fluorescence</i> , First International Conference on Advances in Physical Sciences and Materials, <b>IOP Science: Journal of Physics Conference Series (JPCS)</b> , 2020, 1706,1-12	2020/ <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1706/1/012028/pdf">https://iopscience.iop.org/article/10.1088/1742-6596/1706/1/012028/pdf</a>
4.	Indian Journal Applied Research	UGC list upto 2018-2020	PRINT ISSN NO 2249 -555X	<b>Fairlin Jenitha R and Sudhaparimala . S*</b> , <i>Nitrogen-Doped Carbon Quantum Dots from Anti-Oxidant Rich Seeds Of Caesalpinia Bonducella For Tunable Fluorescence And Catalytic Degradation Of Dichlorophenol</i> , Indian Journal Applied Research, Vol.10 (6), 2020, PRINT ISSN NO 2249 -555X, 1-3.	2020/ <a href="https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/article/nitrogen-doped-carbon-quantum-dots-from-anti-oxidant-rich-seeds-of-caesalpinia-bonducella-for-tunable-fluorescence-and-catalytic-degradation-of-dichlorophenol/MjAzODU=?is=1&amp;b1=73&amp;k=19">https://www.worldwidejournals.com/indian-journal-of-applied-research-(IJAR)/article/nitrogen-doped-carbon-quantum-dots-from-anti-oxidant-rich-seeds-of-caesalpinia-bonducella-for-tunable-fluorescence-and-catalytic-degradation-of-dichlorophenol/MjAzODU=?is=1&amp;b1=73&amp;k=19</a>
5.	Material Science Research India	UGC list upto 2016-2018	ISSN:0973-3469	<b>R.Usha and S.Sudhaparimala*</b> , <i>Nano Scale Hydroxyapatite from Crassostreao Virginica(Oyester Seashells)and its modification with Azadirachta Indica (Neem Extract)</i> , <b>Material Science Research India</b> , Vol.15(3), 2018, ISSN:0973-3469, 296-306.	2018/ <a href="http://dx.doi.org/10.13005/msri/150312">http://dx.doi.org/10.13005/msri/150312</a>

6.	Material Science Research India	UGC list upto 2012-2018	ISSN 0973-3469	<b>Prashanna Suvaita S, Sudha parimala S*</b> , <i>Effect of Europium (III) Oxide doping on the nanoscale ceramic stannates <math>M\text{SnO}_3</math> [M=Ca and Ba] upon morphology, photo luminescence and catalytic degradation activity and anti microbial activity -Green approach</i> , Material Science Research India, Vol.15(2), 2018, ISSN 0973-3469, 185-196.	2018/ <a href="http://dx.doi.org/10.13005/msri/150211">http://dx.doi.org/10.13005/msri/150211</a>
7.	Research Journal of Chemistry and Environment	SCI	ISSN No: 2278-4527	<b>Usha R, Sudha parimala S*</b> . <i>Study of nano scale biphasic Hydroxyapatite at lower processing temperature - Influence of Anadara granosa seashell as a precursor</i> , Research Journal of Chemistry and Environment, Vol. 22(2), 2017, ISSN: 2278-4527, 1-6	2017/ <a href="https://www.researchgate.net/publication/323079631_Study_of_nano_scale_biphasic_Hydroxyapatite_at_lower_processing_temperature_-_Influence_of_Anadara_granosa_seashell_as_a_precursor">https://www.researchgate.net/publication/323079631_Study_of_nano_scale_biphasic_Hydroxyapatite_at_lower_processing_temperature_-_Influence_of_Anadara_granosa_seashell_as_a_precursor</a>
8.	Advances in Natural and Applied sciences	Scopus and active between 2009-2012	ISSN No: 1998-1090	<b>R.Usha, S.Sudha parimala S*</b> . <i>Quality (Nanoscale) assessment of Calcium carbonate present in shells of Anadara granosa, and Crassostreao virginica marine species located in the coastal part of South India</i> , Advances in Natural and Applied sciences; Vol. 11(9), 2017, ISSN: 2278-4527, 205-211.	2017/ <a href="https://go.gale.com/ps/i.do?id=GALE%7CA505467544&amp;sid=googleScholar&amp;v=2.1&amp;it=r&amp;linkaccess=abs&amp;issn=19950772&amp;p=AONE&amp;sw=w&amp;userGroupName=teloweb">https://go.gale.com/ps/i.do?id=GALE%7CA505467544&amp;sid=googleScholar&amp;v=2.1&amp;it=r&amp;linkaccess=abs&amp;issn=19950772&amp;p=AONE&amp;sw=w&amp;userGroupName=teloweb</a>
9.	Research Journal of Chemistry and Environment	SCI	ISSN No: 2278-4527	<b>Sudha Parimala S.* Prashanna Suvaita S.</b> <i>Doping of <math>\text{Eu}^{3+}</math> into nanoscale zinc stannate ceramic and screening for solar degradation of organic dye, p-chlorophenol – a green approach</i> , Research Journal of Chemistry and Environment, Vol. 21 (9), 2017, ISSN: 2278-4527, 31-37.	2017/ <a href="https://www.researchgate.net/publication/319455874_Doping_of_Eu3_into_nanoscale_zinc_stannate_ceramic_and_screening_for_solar_degradation_of_organic_dye_p-chlorophenol_-_A_green_approach">https://www.researchgate.net/publication/319455874_Doping_of_Eu3_into_nanoscale_zinc_stannate_ceramic_and_screening_for_solar_degradation_of_organic_dye_p-chlorophenol_-_A_green_approach</a>

10.	International journal Applied Physical and Biochemistry research	UGC list till upto 2012-2017	ISSN (ONLINE): 2319-4448; ISSN (PRINT): 2277-4793	<b>Sudha parimala. S *</b> , <b>Rajarajeshwari.M, Green Synthesis of Nano Scale Barium Stannate Ceramic – Influence of Calcination Temperature on Phase Purity and Luminescence Property,</b> International journal Applied Physical and Biochemistry research, Vol.7(2), 2017, ISSN (ONLINE): 2319-4448; ISSN (PRINT): 2277-4793, 1-8.	2017/ <a href="https://www.researchgate.net/publication/350566601_GREEN_SYNTHESES_OF_NANO_SCALE_BARIUM_STANNATE_CERAMIC_-_INFLUENCE_OF_CALCINATION_TEMPERATURE_ON_PHASE_PURITY_AND_LUMINESCENCE_PROPERTY">https://www.researchgate.net/publication/350566601_GREEN_SYNTHESES_OF_NANO_SCALE_BARIUM_STANNATE_CERAMIC_-_INFLUENCE_OF_CALCINATION_TEMPERATURE_ON_PHASE_PURITY_AND_LUMINESCENCE_PROPERTY</a>
11.	Materials Today: Proceedings	UGC & SCI	ISSN: 1369-7021	<b>S. Sudhaparimala*, M. Vaishnavi,</b> <i>Biological synthesis of nano composite SnO<sub>2</sub>-ZnO- Screening for efficient photocatalytic degradation and antimicrobial activity,</i> Materials Today: Proceedings, Vol. 3, 2016, ISSN: 1369-7021, 2373-2380.	2016/ <a href="https://doi.org/10.1016/j.matpr.2016.04.150">https://doi.org/10.1016/j.matpr.2016.04.150</a>
12	International Journal of Medical and Applied Sciences	UGC list between 2011-2015	ISSN:2320-3137	<b>Sudhaparimala*, Lingeswari S, Subhshini L, Aishwarya G,</b> <i>Aloe barbadensis Miller Mediated synthesis of nano crystalline Tin (IV) Oxide- Influence of the plant extract concentration, Period of digestion and calcinations temperature,</i> International Journal of Medical and Applied Sciences E, vol .3(1), 2014, 216-222.	2014/ <a href="https://orcid.org/0000-0002-4608-0419">https://orcid.org/0000-0002-4608-0419</a>
13	American journal of Nanoscience and nanotechnology	Scopus active between 2011-2015	ISSN:2331-0685(Print); ISSN:2331-0693(Online)	<b>S.Sudhaparimala, A.Gnanamani, A.B.Mandal,*</b> Green synthesis of tin based nano medicine: Assessment of microstructure and surface property, <i>American journal of Nanoscience and nanotechnology,</i> 2014, 2(4), 75-83.	2014/ <a href="https://www.sciencepublishinggroup.com/journal/paperinfo?journalid=226&amp;doi=10.11648/j.nano.20140204.13">https://www.sciencepublishinggroup.com/journal/paperinfo?journalid=226&amp;doi=10.11648/j.nano.20140204.13</a>
14	Indo American Journal of Pharmaceutical Research	Scopus active between 2012-2017	ISSN No: 2231-6876).	<b>S. Sudha parimala , A. Gnanamani , A. B.Mandal, *</b> Exploring nano crystalline structure, surface morphology and adsorption properties of tin based herbal drug formulation during its preparation (calcinations), <i>Indo American</i>	2013/ <a href="https://silo.tips/download/journal-home-page">https://silo.tips/download/journal-home-page</a>

				<i>Journal of Pharmaceutical Research</i> , 2013, vol. 3(5).	
15	Chemical Sciences Review and Letters	Scopus	ISSN: 2278-6783	<b>Sethumadhavan Sudhaparimala, Arumugam Gnanamani, Asit Baran Mandal*</b> , Egg shell powder as the Precursor for the synthesis of nano crystalline calcium stannate (CaSnO <sub>3</sub> ) with orthorhombic perovskite structure: Exploration on Phase, Morphology and Antioxidant property, <i>Chemical Sciences Review and Letters</i> , 2012, Vol.2(5)267-277.	2012/ <a href="https://www.semantic Scholar.org/paper/Egg-shell-powder-as-the-Precursor-for-the-Synthesis-Sudhaparimala-Gnanamani/286988043ce40a3d0e04363597e0f334167f40b7">https://www.semantic Scholar.org/paper/Egg-shell-powder-as-the-Precursor-for-the-Synthesis-Sudhaparimala-Gnanamani/286988043ce40a3d0e04363597e0f334167f40b7</a>
16	Current Research in Chemistry	UGC list between 2010-2014	ISSN:1996-5052.	<b>S. Sudhaparimala, S. Christina Selin, A. Gnanamani, A.B.Mandal*</b> , Synthesis and Characterization of Tin(IV) oxide from Tin (II) chloride using combined microwave and traditional calcinations procedures, <i>Current Research in chemistry</i> , 2012; DOI10.3923/crc2012	2012/ <a href="https://dx.doi.org/10.3923/crc.2012.60.67">https://dx.doi.org/10.3923/crc.2012.60.67</a>
17	International Journal of Pharmaceutical Sciences and Research,	Scopus active between 2011-2017	ISSN:0975-8232	<b>S. Sudhaparimala, A. Gnanamani, A. B.Mandal*</b> , Bulk and surface properties of tin based herbal drug during its preparation : Finger printing of Active Pharmaceutical constituent, <i>International Journal of Pharmaceutical Sciences and Research</i> , 2012;Vol.3(4)1037-1042.	2012/ <a href="https://ijpsr.com/bft-article/bulk-and-surface-properties-of-tin-based-herbal-drug-during-its-preparation-finger-printing-of-the-active-pharmaceutical-constituent/">https://ijpsr.com/bft-article/bulk-and-surface-properties-of-tin-based-herbal-drug-during-its-preparation-finger-printing-of-the-active-pharmaceutical-constituent/</a>
18	Indian academy of sciences	UGC list upto 2005-2012	ISSN: 0974-6846.	<b>*S. Sudhaparimala, C. Mullaikodi, A.Gnanamani, Asit Baran Mandal*</b> Quality assessment of commercial formulations of tin based herbal drug by physico-chemical fingerprints, <i>Indian academy of sciences</i> , 2011;Vol.4(12)1710-1714.	2011/ <a href="http://repository.ias.ac.in/84401/">http://repository.ias.ac.in/84401/</a>
<b>BOOK CHAPTER PUBLICATIONS</b>					
1	Recent Trends in Chemical and Material Sciences	BP international (Published by UK)	Print ISBN: 978-93-91473-41-9, eBook ISBN: 978-	<b>S. Sudhaparimala<sup>1</sup> and R. Usha<sup>1</sup></b> , <i>Study of Influence of Seashell (Crassostrea virginica) Precursor and Neem (Azadirachta indica) Extract on</i>	2021/ <a href="https://stm.bookpi.org/RTCAMSV2/article/view/2903">https://stm.bookpi.org/RTCAMSV2/article/view/2903</a>

		and India)	93-91473-49-5	<i>the Microstructure and Anti-Microbial Activity of Nano Scale Hydroxyapatite towards Dental Applications</i> , Recent Trends in Chemical and Material Sciences, Vol. 2, Chapter 3, 2021, 17-29. First edition, Print ISBN: 978-93-91473-41-9, eBook ISBN: 978-93-91473-49-5.	
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### FDP/STTP

S.No.	Organized by	State/National/International	Topic	Date(s)
1	Teaching Learning center Ramanujan College, University of Delhi	National	Managing online classes and co-creating moocs: 2.0"	From May 18 <sup>th</sup> to June 03, 2020.
2.	Satish pradhan Dnyanasadhana College, Thane association with Department of information technology university of Mumbai, Yashwantrao Chavan Maharashtra open University and Microsoft	National	FDP on Evolution from Offline to Online Teaching	From 30 <sup>th</sup> May, 2020 to 3 <sup>rd</sup> June, 2020

### WEBINARS [National/International]

S.No.	Organized by	State/National/International	Topic	Date(s)
1	Department of Chemistry, Loyola College	International Webinar ( <b>Attended</b> )	Advanced functional materials for the Biomedical and Energy	24 <sup>th</sup> & 25 <sup>th</sup> of June 2020.
2.	PG and Research Department of Chemistry, Pachaippa's College	National Webinar ( <b>Attended</b> )	Recent Trends in sustainable chemistry	17 <sup>th</sup> June 2020
3.	Department of Science and Humanities Chemistry, C. Abdul Hakeem College of Engineering and Technology	National Webinar ( <b>Attended</b> )	Advanced Ceramic Materials: An overview"	10 <sup>th</sup> June 2020
4.	Department of Chemistry, Sadakathullah Appa College (Autonomous),	National Webinar ( <b>Attended</b> )	Nano Materials	06 <sup>th</sup> June 2020



	Rahmath Nagar, Tirunelveli			
5.	St.Xavier's College (Autonomous), Mumbai	International <b>(Attended)</b>	webinar Roadmap to a post via COVID-19 era	23 <sup>rd</sup> & 24 <sup>th</sup> May 2020.
6.	Department of Chemistry, Ethiraj College for women	State level <b>(Organizing Secretary)</b>	"Plant versus good health"	27 <sup>th</sup> May 2020

#### AWARDS:

- **Won the Best Research paper award** for the paper entitled "Effect of calcination temperatures on the phase transition of Hydroxyapatite" at the **International Symposium on smart materials and Workshop on Chemical Vapor Deposition** organized by Centre for Clean Energy and Nano Convergence (CENCON), HIET, Chennai on OCT.2018.
- Received "**Certificate of Excellence in Reviewing**" from **Journal of Material Science Research and Reviews** in recognition of an outstanding contribution to the quality of the journal, 2021. (Certificate No: SDI/HQ/PR/Cert/71605/SSU).  
Fellowship/scholarship received:
- Received **UGC-FIP Fellowship** (2010-2012) for persuing Ph.D.
- Received the **National Merit Scholarship from the Govt. of India** from 1981 to 1988.

#### OTHERS:

Appointed as the panel member of "**Subject Experts**" by the Vice chancellor, University of Madras for the recruitment of Assistant professors in the Department of Chemistry, Anna Adarsh College for Women, Chennai held on 7<sup>th</sup> of Oct 2021.

Appointed as the "**Member of Inspection Commission**", University of Madras, for the affiliation of B.Sc., Chemistry course for Annai Tersa Arts and Science College, Thirukazhukundram for the year 2017-2018.