

BIO-DATA



Name: Dr.S. Sudhaparimala

Age/ Date of Birth: 56 years /13/ 05/66

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

Designation: Associate Professor, Department of Chemistry

Name of the Institution (Presently): Ethiraj College for Women, Chennai-08

Years of Teaching Experience (Present institution): UG: 22.5, PG: 22.5 years

Previous Teaching Experience: UG: 1.5, PG: 1.5

Area of Specialization: Physical Chemistry, Nano Chemistry

Email-ID : sudhaparimala_s@ethirajcollege.edu.in , sudha92@gmail.com

Research activity

Google Scholar ID: Mrs Sudhaparimala S.

ORCID iD: 0000-0002- 4608- 0419 ([ORCID](https://orcid.org/0000-0002-4608-0419))

Researchgate ID: Sudhaparimala S.

Google scholar h-index: 4 , **Since 2018 h-index :** 3

Research Gate h-index: 4

Google Scholar i10 index: 2

PATENT FILED

S. No	Title of the filed Patent	Applicants Name	Application number	Patent Filed date	Published date
1	CARBON-BASED SMART NANO MATERIAL	1. Dr. S. Sudhaparimala 2. R.Usha 3. Ethiraj College For Women	202241056225 A	30.09.2022	14.10.2022

PRINCIPAL INVESTIGATOR FOR PROJECT FUNDED BY THE GOVERNMENT BODY

S.No	Title	Profile in the Project	Duration	Funding agency	Amount Sanctioned (in lakhs)	Status of the project
1	“Functionalization of graphene with heteroatom’s of O, S,N by greenmethod for pollution management and industrial applications”	Principal Investigator	Two years	Tamil Nadu State Council for Science and Technology (TNSCST) C.No. TNSCST/STP-PRG/AR 2018-2019 9325	Rs.3,40,000/-	Completed and submitted the report in the year 2022

RESEARCH GUIDANCE

Ph.D Awarded	NIL
Ph.D Guiding	THREE (Ongoing)
M.Phil Awarded	SIX

WORKSHOPS ATTENDED AND ORGANIZED

S.No.	Organized by	State/National/ International	Topic	Date(s)
1.	Centre for Advanced Computational Chemistry Studies, Delhi.	2 nd National Workshop on Computational Chemistry (Attended)	“Materials: Molecule, Solids, Nanoparticles and Biological Activity (CCM-2022)” (via Online Mode)	11th July – 17th July 2022
2.	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.
3.	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.
4.	PG & Research Department of Chemistry, D.G. Vaishnav College, Arumbakkam, Chennai	National Online Workshop (Attended)	“Nuances in computational Chemistry”	02/07/2020 to 05/07/2020
5.	Department of Chemistry, Ethiraj College for women Chennai	State level workshop (Organizing Secretary)	"Principles and applications of spectroscopy –a problem solving approach”	27/01/2020
6.	Ethiraj College for Women, Chennai	State level workshop (Attended)	Workshop on Academics and Research	01/02/2017
7.	Ethiraj College for Women, Chennai	State level workshop (Attended)	Lecture workshop on analytical tools for micro and nanoscale characterization of materials in biological and physical sciences	9/02/2016
8.	CSIR-CLRI, Chennai	National level Workshop (Attended)	Workshop on Practicals and Practices in Chemistry	31/03/2011, CSIR-CLRI, Chennai
9.	Sathyabama University	National level Workshop (Attended)	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.	ISET in association with IEI Vietnam	International Conference on Water energy and environment (WEECONN 2021).	Presented	“Influence of nonmetal doped graphene based nanomaterials synthesized using polysaccharide as precursor towards catalytic and luminescence activity”	23 – 24, Dec 2021.
2	ISET in association with IEI Vietnam	International Conference on Water energy and environment (WEECONN 2021).	Presented	“Carbon dots from aldopentose rich agricultural waste via pyrolysis as oxygen reduction catalyst”	23 – 24, Dec 2021.
3	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
4	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
5	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
6.	Centre for Clean Energy and Nano Convergence	International Symposium on smart materials and Workshop on Chemical Vapor Deposition (Best research paper award)	Presented	Effect of calcinations temperatures on the phase transition of Hydroxyapatite	Oct 2018

7	Sathyabama University, in association with CSIR-CLRI, India	International conference on Recent trends in Nanoscience and Nanotechnology 2015 (Best research paper award)	Presented	Biological synthesis of nano composite SnO ₂ - ZnO: Screening for efficient photocatalytic degradation and antimicrobial activity	July 8th -10th, 2015
8	Hindustan University, Chennai	International Conference on Materials for Energy and Nano Convergence 2013	Attended	-	July 4-6, 2013
9	IIT, Madras	Medicinal chemistry Conference, 2011	Presented	-	October 28-29, 2011

JOURNAL PUBLICATIONS

S. No.	JOURNAL NAME	UGC /SCI/ SCIE/ WOS	ISBN / ISSN NUMBER	REFERENCE	DATE OF PUBLICATION/DOI
1.	Research Journal of Chemistry and environment	SCI, UGC Care list	ISSN: 9720626	R.Fairlin jenitha and S.Sudhaparimala , <i>Evaluation of Green Luminescent Carbon Dots derived from Plantago Psyllium via Thermal Carbonization as adsorption catalyst</i> , Research journal of Chemistry and environment, 2023. (Accepted and under publications.)	2023
2	Indian Journal of Environmental protection	SCI, UGC Care list	ISSN: 2537141	S.Sudhaparimala * and R. Usha , <i>Enhancing Green Reduction of Graphene Oxide by Nyctanthes arbor-tritis leaves towards degradation of organic pollutants and tunable fluorescence</i> , Indian journal of environmental protection, 2022, 14(11), 2022, 1317-1325	2022, https://www.researchgate.net/publication/366094300 <u>Enhancing Green Reduction of Graphene Oxide by Nyctanthes arbor-tritis leaves towards degradation of organic pollutants and tunable fluorescence</u>
3.	Indian Journal of Chemical Technology	SCI WOS, UGC Care list	0975-0991	R.Usha¹, R.Fairlin jenitha² and S.Sudhaparimala^{3*} , <i>Influence of Non-metal dopants (O, S, N) and Dimension of Carbon nanomaterials on the fluorescence and photocatalytic degradation of organic pollutants</i> , Indian Journal of Chemical Technology, 29 (5), 2022, 485-494.	2022, http://op.niscair.res.in/index.php/IJCT/article/view/61639
4.	Nature environmental and pollution Technology	SCI,	ISSN: 0972-6268	S.Sudhaparimala * and R.Usha , <i>Tuning of Carbon microspheres and Graphene structures with hetero atoms for organic dye degradation and heavy metal remediation - Influence of fructose as precursor</i> , Nature environmental and pollution technology, 21 (2), 2022, 469-480.	2022, https://neptjournal.com/upload-images/(5)B-3854.pdf
5	Material Science Forum	UGC & SCI &	ISSN: 1662-9752	S. Sudhaparimala ^{1,a *} and R	2021/ https://www.scientific.n

		WOS		Usha^{2,b} , <i>Functionalization of Graphene with O and S for Catalytic degradation of Chlorophenols and dyes</i> , Material Science Forum, ISSN: 1662-9752, (2021) Vol. 1019, pp 194-204.	et/MSF.1019.194
6	IOP Science: Journal of Physics Conference Series (JPCS)	UGC & SCI & WOS	ISSN: 1742-6588	S Sudhaparimala and R Usha , <i>Energy efficient Functionalization of Graphene for tunable fluorescence</i> , First International Conference on Advances in Physical Sciences and Materials, IOP Science: Journal of Physics Conference Series (JPCS), 2020, 1706, 1-12	2020/ https://iopscience.iop.org/article/10.1088/1742-6596/1706/1/012028/pdf
7.	Indian Journal Applied Research	UGC list upto 2018-2020	PRINT ISSN No 2249 - 555X	Fairlin Jenitha R and Sudhaparimala S* , <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/ 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&b1=73&k=19
8.	Material Science Research India	UGC list upto 2016-2018	ISSN No :0973-3469	R.Usha and S.Sudhaparimala* , <i>Nano Scale Hydroxyapatite from Crassostreao Virginica (Oyster Seashells) and its modification with Azadirachta Indica (Neem Extract)</i> , Material Science Research India, Vol.15(3), 2018, ISSN:0973-3469, 296-306.	2018/ http://dx.doi.org/10.13005/msri/150312
9.	Material Science Research India	UGC list upto 2012-2018	ISSN NO: 0973-3469	Prashanna Suvaita S, Sudha parimala S* , <i>Effect of Europium (III) Oxide doping on the nanoscale ceramic stannates MSnO₃ [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/ http://dx.doi.org/10.13005/msri/150211
10.	Research Journal of Chemistry and Environment	SCI	ISSN No: 2278-4527	Usha R, Sudha parimala S* . <i>Study of nano scale biphasic Hydroxyapatite at lower processing temperature - Influence of Anadara granosaseashell</i>	2017/ https://www.researchgate.net/publication/323079631_Study_of_nano_

				as a precursor, Research Journal of Chemistry and Environment, Vol. 22(2), 2017, ISSN: 2278-4527, 1-6	scale biphasic Hydroxapatite at lower processing temperature - Influence of Anadara granosa seashell as a precursor
11.	Advances in Natural and Applied sciences	Scopus active between 2009-2012	ISSN No: 1998-1090	R.Usha, S.Sudha parimala *. <i>Quality (Nanoscale)assessment of Calciumcarbonate 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/ https://go.gale.com/ps/i.do?id=GALE%7CA505467544&sid=googleScholar&v=2.1&it=r&linkaccess=abs&issn=19950772&p=AONE&sw=w&userGroupName=teloweb
12.	Research Journal of Chemistry and Environment	SCI	ISSN No: 2278-4527	Sudha Parimala S.* Prashanna Suvaitha S. <i>Doping of Eu³⁺ 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/ 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
13.	International journal Applied Physical and Biochemistry research	UGC list till upto 2012-2017	ISSN (ONLINE): 2319-4448; ISSN (PRINT): 2277-4793	Sudha parimala. S * , Rajarajeshwari.M. <i>Green Synthesis of Nano Scale Barium Stannate Ceramic – Influence of Calcination Temperature on Phase Purity and Luminescence Property</i> , International journal Applied Physical and Biochemistry research, Vol.7(2), 2017, ISSN(ONLINE): 2319-4448; ISSN (PRINT): 2277-4793, 1-8.	2017/ https://www.researchgate.net/publication/350566601_GREEN_SYNTESIS_OF_NANO_SCALE_BARIUM_STANNATE_CERAMIC_-_INFLUENCE_OF_CALCINATION_TEMPERATURE_ON_PHASE_PURITY_AND_LUMINESCENCE_PROPERTY
14.	Materials Today: Proceedings	UGC & SCI	ISSN: 1369-7021	S. Sudhparimala*, M. Vaishnavi, <i>Biological synthesis of nano composite SnO₂-ZnO- Screening for efficient photocatalytic degradation and antimicrobial activity</i> , Materials Today: Proceedings, Vol. 3, 2016, ISSN: 1369-7021, 2373-2380.	2016/ https://doi.org/10.1016/j.matpr.2016.04.150

15	International Journal of Medical and Applied Sciences	UGC list between 2011-2015	ISSN:2320-3137	Sudhaparimala*, Lingeswari S, Subhshini L, Aishwarya G, Aloe barbadensis Miller Mediated synthesis of nano crystalline Tin (IV) Oxide- Influence of the plant extract concentration, Period of digestion and calcination temperature, <i>International Journal of Medical and Applied Sciences E</i> , vol .3(1), 2014, 216-222.	2014/ https://orcid.org/0000-0002-4608-0419
16	American journal of Nanoscience and nanotechnology	Scopus active between 2011-2015	ISSN:2331-0685(Print); ISSN:2331-0693(Online)	S.Sudhaparimala, A.Gnanamani, A.B.Mandal,* 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/ https://www.sciencepublisinggroup.com/journal/paperinfo?journalid=226&doi=10.11648/j.nano.20140204.13
17	Indo American Journal of Pharmaceutical Research	Scopus active between 2012-2017	ISSN No: 2231-6876).	S. Sudha parimala , A. Gnanamani , A. B.Mandal, * Exploring nano crystalline structure, surface morphology and adsorption properties of tin based herbal drug formulation during its preparation (calcinations), <i>Indo American Journal of Pharmaceutical Research</i> , 2013, vol. 3(5).	2013/ https://silo.tips/download/journal-home-page
18	Chemical Sciences Review and Letters	Scopus	ISSN: 2278-6783	Sethumadhavan Sudha parimala, Arumugam Gnanamani, Asit Baran Mandal* , Egg shell powder as the Precursor for the synthesis of nano crystalline calcium stannate (CaSnO ₃) 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/ https://www.semantic scholar.org/paper/Egg-shell-powder-as-the-Precursor-for-the-Synthesis-Sudhaparimala-Gnanamani/286988043ce40a3d0e04363597e0f334167f40b7
19	Current Research in Chemistry	UGC list between 2010-2014	ISSN:1996-5052.	S. Sudhaparimala, S. Christina Selin, A.Gnanamani, A.B.Mandal* , 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/ https://dx.doi.org/10.3923/crc.2012.60.67

20	International Journal of Pharmaceutical Sciences and Research,	Scopus active between 2011-2017	ISSN:0975-8232	S. Sudha parimala, A. Gnanamani, A. B.Mandal*, 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/ https://ijpsr.com/bft-article/bulk-and-surface-properties-of-tin-based-herbal-drug-during-its-preparation-fingerprinting-of-the-active-pharmaceutical-constituent/
21	Indian academy of sciences	UGC list upto 2005-2012	ISSN: 0974-6846.	*S. Sudha parimala, C. Mullaikodi, A.Gnanamani, Asit Baran Mandal: 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/ http://repository.ias.ac.in/84401/

BOOK CHAPTER PUBLICATIONS

1	Recent Trends in Chemical and Material Sciences	BP international (Published by UK and India)	Print ISBN: 978-93-91473-41-9, eBook ISBN: 978-93-91473-49-5	S. Sudhaparimala ^{1*} and R. Usha ¹ <i>Study of Influence of Seashell (Crassostrea virginica) Precursor and Neem (Azadirachta indica) Extract on 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.	2021/ https://stm.bookpi.org/RTCAMS-V2/article/view/2903
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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 th to June 03, 2020.
2.	Satish pradhan Dnyanasadhana College,Thane association with Department of information technology university of Mumbai, YashwantraoChavan	National	FDP on Evolution from Offline to Online Teaching	From 30 th May, 2020 to 3 rd June, 2020

Maharashtra open University and Microsoft			
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WEBINARS ATTENDED/ORGANIZED [National/International]

S.No.	Organized by	State/National/International	Topic	Date(s)
1	Department of Chemistry, Loyola College	International Webinar (Attended)	Advanced functional materials for the Biomedical and Energy	24 th & 25 th of June 2020.
2.	PG and Research Department of Chemistry, Pachaippa's College	National Webinar (Attended)	Recent Trends in sustainable chemistry	17 th June 2020
3.	Department of Science and Humanities – Chemistry, C.Abdul Hakeem College of Engineering and Technology	National Webinar (Attended)	Advanced Ceramic Materials: An overview”	10 th June 2020
4.	Department of Chemistry, Sadakathullah Appa College (Autonomous), Rahmath Nagar, Tirunelveli	National Webinar (Attended)	Nano Materials	06 th June 2020
5.	St.Xavier's College (Autonomous), Mumbai	International webinar (Attended)	Roadmap to a post via COVID-19 era	23 rd & 24 th May 2020.
6.	Department of Chemistry, Ethiraj College for women	State level (Organizing Secretary)	“Plant versus good health”	27 th May 2020

AWARDS & RECOGNITION :

- Approved Membership as an active **Professional Member** (Membership ID: **2022010088**) from **Institute for Science, Engineering and Technology Research (ISET)** from 23.01.2022
- **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 pursuing 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, Guru Nanak College, Chennai held on 8th and 9th of Feb 2022.

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 7th of Oct 2021.

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

Resource person in Question bank workshop on General Awareness conducted by Govt. of India, Dept. of Personnel and Training, Staff Selection Commission(southern Region) on 12 th and 13 th February 2015 at Chennai.