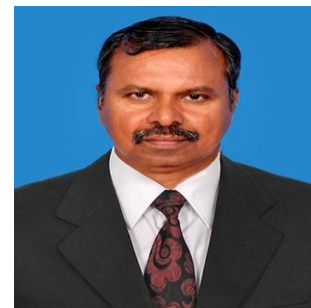


NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**PUTHANAMPATTI-621007****STAFF PROFILE**

NAME OF THE STAFF : Dr.A.SEKAR
DESIGNATION : ASSOCIATE PROFESSOR AND HEAD
DEPARTMENT : CHEMISTRY

**1. CONTACT**

Address : NEHRU MEMORIALM COLLEGE, PUTHANAMPATTI
Contact Phone (Office) : 04327-234227
Contact Phone (Mobile) : 9486968387
Contact e-mail(s) : alagansek66@gmail.com

2. ACADEMIC QUALIFICATIONS

Degree	College/University/Board	Year of Passing/ Awarded
M.Sc.	Bharathidasan university	1989
M.Phil.	University of Madras	1990
Ph.D.	Bharathidasan University	2011

3. TEACHING EXPERIENCE

S. No.	Institution	Duration	No. of Years	
			UG	PG
1.	Nehru Memorial College, Puthanampatti	1993 – till date	28	13

4. RESEARCH EXPERIENCE (in years) : 14 years

5. AREA OF RESEARCH :

Biological Oxidation, Corrosion studies and Computational chemistry

6 **. RESEARCH GUIDANCE (In Numbers)

Program of Study		Completed	Ongoing
Research	Ph. D.	03	02
	M. Phil.	25	-

7. PUBLICATION(S) (In Numbers)**

Journal(s)		Proceeding(s)		Book(s) / Chapter(s) / Monograph(s) / Manual(s)
International	National	International	National	
11	-	01	--	-

Cumulative Impact Factor (as per JCR)	2.09
h-index	4
Total Citations	84

8. PRESENTATION(S) (In Numbers)**

Events	International	National	State	Regional
Conference(s)	03	01	02	01
Seminar(s)	04	04	-	-

9. PARTICIPATION (In Numbers)**

Events	International	National	State	Regional
Conference(s)	03	01	02	01
Seminar(s)	04	04	-	-
Workshop(s)	02	02		

10. PROFESSIONAL DEVELOPMENT (In Numbers)**

Orientation Programme(s)	Refresher Course(s)	Faculty Development Programme(s)
01	03	04

11. EVENT(S) ORGANIZED

1.	One day Workshop on Micro techniques in Practical Chemistry	Dr. Alex Ramani, Associate Prof. of Chemistry, SJC, Trichy	11.12.14	Autonomous Grant	College Level
2.	Introduction to Bio Informatics	Dr. A. Rajasekaran DSC of Tech., Trichy	16.03.15	Autonomous Grant	College Level
3.	Nano technologies: opportunities and excitement	Dr. S. Ananthan, Associate Prof. of Chemistry, NIT, Trichy	19.02.16	Autonomous Grant	College Level

4.	Inter-Collegiate competition – CHEM RACE-16	Dr. A. Peter Pascal Regis , Associate Prof. of Chemistry, SJC, Trichy	1.03.16	Autonomous Grant	Inter College level
5.	Seminar on “Dynamic Stereochemistry”	Dr. P. Pandian Associate Prof. of Chemistry, PEVR, Trichy	14.3.16	Autonomous Grant	College Level
6.	Golden Jubilee Alumini Meet		10-12-2017	Chemistry department	-
7.	Carbon Nano Tubes	Dr.S. Manivannan Assistant professor, Department of Physics, National Institute of Technology, Trichy	16.3.2017	Chemistry department	Chemistry Association
8.	Electronic Spectra of Complexes	Dr. S.R. Bheeter Associate Professor SrimadAndavan Arts and Science College Trichy	08.03.2018	Management	Department level
9.	Advanced Materials for Electrochemical Application	Dr. PrabhakaranArunachalam Assistant professor of Chemistry Electro chemistry Research Group, Chemistry Department, Science College, King Saud University, Riyadh-11451, Kingdom of Saudi Arabia	10.8.2018	Management	Department level
10	Students: We “The Pillars of our Nation”	Mrs. S. SanthiSankar Faculty, Delhi Universtiy New Delhi	16.03.2018	Management	Department level

12. **SERVED AS A RESOURCE PERSON (INVITED TALKS / GUEST LECTURES)**

S.No.	Staff	Title of the talk	Date	Visiting College/University	National /International
1.	Dr. A. Sekar	Molecular Spectroscopy	28.9.2015	Dhanalakshmi Srinivasan College of Arts & Science for Women	Guest Lecture
2.	Dr. A. Sekar	General Chemistry	26.08.2015	Training Program for BT teachers, Thuraiyur region	Special Lecture

13. **DETAILS OF MEMBERSHIP**

Academic Bodies (Board of studies)	<ul style="list-style-type: none"> • Board of studies in AVC College Mayiladuthurai • PG Chairman in Academic council • Doctoral committee member for Ph.D scholars • Member of PG Board of studies in BDU, Trichy • Madurai kamaraj University UG,PG Examination Board of chairman
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14. **ANY OTHER ACTIVITIES**

Number of Ph. D. thesis evaluated	one
Number of Ph. D. Public Viva Voce Examination conducted	one

15. **DETAILS OF RESEARCH GUIDANCE**

S.No	P.hD. Scholar	Reg.No.	Title
1	K. Palanisamy (Completed– 21.12.2018)	6284/Ph.D.K2/Part Time/April 2014/20.03.20 14	The Inhibition of corrosion of carbon steel by some Heterocyclic compound Derivative in aqueous medium
2	M. Mhonraja (Completed-03-11- 2020)	7049/Ph.D.K2/Part Time/April 2014/20.03.2014	Biomimic system for activation of Oxygen Molecule with the enzyme Peroxidase

3	F. Paularokiadoss (Submitted)	7208/Ph.D.K2/Part Time/July 2014/23.06.20 14	Quantum Chemical Investigations
4	Mr. P. JothiMurugan	Ref. 19462/Ph.D.K2/Chem istry/Part Time(3- 5)/November 2018/Date:11.12.2018	Green Synthesis and Characterization Zinc oxide Nanoparticles from Medicinal Plants
5	Mr.P. Rajivgandhi	Ref. 27513/Ph.D.K2/Chem istry/Part Time/January – 2018/Date:17.07.2018	Synthesis and Characterization of heteroatom doped carbon for Super capacitor application

M. Phil. (Completed)			
S. No.	Name	Title of thesis	Year of award
1.	K.Ganesan	Growth and characterization of L- Lysine doped ADP crystals	21.04.2010
2.	G.Suresh	Growth and characterization of L- Leucine doped ADP crystals	27.04.2010
3.	G.S. Ganesh	Computational study of inclusion complexation of sulphanilamide Drugs with β -cyclodextrin	01-10-2012
4	S.Karthikeyan	Synthesis and Spectral Studies of μ - peroxo Bridged Dinuclear Cobalt(III)complex of Succinimide	02-04-2014
5.	A. Elavarasan	Synthesis and crystal study of μ -peroxo Bis{ Ethylenediamine}(Diethylenetri- amine) Di-cobalt (III) perchlorate	02.09.2014
6.	C. Thamarai	Kinetics of oxidation of L-Phenyl alanine by peroxox complexes in aqueous medium	08.09.2014
7.	S. Manikandan	Growth and characterization of Niacin Doped KDP crystals	19.09.2014
8.	N.Sowmiya	Growth and characterization of succinamide Fopped KDP crstals	31.01.2015
9.	P.Selvaraj	Phytochemical and GC-MS Analysis of sphaeranthus indicus Medicinal plant in ethanol solvent	17.08.2015
10.	S.Valarmathi	Green synthesis and characterization of ZnO Nano particles by Spharanthus Indicus Leaves	25.08.2015
11.	A. Alphones Reena	Phytochemical Screening and GC-MS Analysis of Spharanthus Indicus in Acetone solvent	04.09.2015

12.	K.Sadique Basha	Spectral studies of some Medicinal Herbal products	31.01.2015
13.	S. Nirmala	Green synthesis and characterization of ZnO nano particles	20.04.2016
14.	M.Anbarasi	synthesis and characterization of ZnO Nano particles by solanum Trilobatum	03.10.2017
15.	R. Theivanai	synthesis and characterization of ZnO Nano particles by Plectranthus Amboinicus	25.10.2017
16.	P.Preethi	synthesis and characterization of ZnO Nano particles by Morinda Citrifolia	05.10.2017
17	P.Senthil kumar	Kinetics of oxidation of Tryptophan by peroxo complex in aqueous medium	25.01.2017
18.	S. Thangaraju	Synthesis and characterization of ZnO Nano particles by using Cardiospermum Halicacabum	01.02.2018
19.	A.P. Annapooranam	synthesis and characterization of ZnO Nano particles by using Enicostema Axillare	29.04.2019
20.	T. Saravanan	synthesis and characterization of ZnO Nano particles by using Urtica Dioica	29.07.2019
21	G. Michael Sakila	synthesis and characterization of Zinc oxide Nano particles by using Solanum Nigrum	28.12.2020
22	P.Mary Jacqueline	Water Analysis a Perspective study with Soil characteristics in Kallakurichi District	28.12.2020
23	S. Kavitha	Growth and Characterization of Valine Doped KDP crystals	28.12.2020
24	R.Manimaran	Biological Oxidation of Isoleucine by μ -peroxo complex in aqueous Medium	13.01.2021
25	N.Jeyachandran	Kinetic and Mechanic study of Biomimic Oxidation of L-Sorbose by μ -Peroxo complex in Aqueous Medium	13.01.2021

16. **DETAILS OF PUBLICATIONS**

S.NO	JOURNAL NAME	TITLE OF THE PAPER	VOLUME / YEAR	Impact Factor	National/International
1.	Theoretical Chemistry Accounts	Chemistry of group-10 metals monohaloalumylene complexes [TM(CO) ₃ AlX]: a DFT study	140 Article number 101(2001) https://doi.org/10.1007/s00214-021-02801-5	1.702	International (springer)

2.	Chemical Paper	Coordination of indium monohalide with group-10 metal carbonyls [TM(CO) ₃ (InX)]: a DFT study	75 (2021) 311-324. ISSN: 1336 - 9075	1.680	International (springer)
3.	Computational and Theoretical Chemistry	Theoretical Studies of Group 10 Metal Gallylene complexes [TM(CO) ₃ (GaX)],	1197 (2021) 113139-113151 ISSN: 2210-271X	1.403	International (Elsevier)
4.	Computational and Theoretical Chemistry	A DFT Study on Structural and Bonding Analysis of Transition- Metal Carbonyls with terminal Haloborylene Ligands [M(CO) ₃ (BX)] (M=Ni, Pd, and Pt; X= F, Cl, Br, and I	1177 (2020) 112750-112758 ISSN: 2210-271X	1.403	International (Elsevier)
5.	Journal of Emerging Technologies and Innovative Research	DFT studies on the Adsorption of CFC over the Copper Embedded Nitrogen Doped Graphene	April 2019, volume 6, issue 4. (ISSN-2349-5162)	5.87	International
6.	INFOK ARA RESEARCH	Bio-mimic oxidation kinetics of Nicotinic Acid by μ -peroxo complex in aqueous Medium	Volume 8, issue 9, September 2019 (ID: IK – 2891)	5.3	International
7.	International Journal of Scientific research and Review	Kinetics and Mechanism of Bio-mimic Oxidation of Calcium D-pantothenate by μ -peroxo complex in acid Medium	Volume 8, Issue 8, August 2019 (ISO:7021-2008) ID:IJSRR/D2393	6.1	International
8.	Journal of Emerging Technologies and Innovative Research	kinetic and mechanistic study of bio-mimic oxidation of l-valine by M-peroxo complex in acid medium	February 2019, Volume 6, Issue 2	0.2733	International

9.	Surfaces and Interfaces	Evaluation of chromotrope FB dye as corrosion inhibitor using electrochemical and theoretical studies for acid cleaning process of petroleum pipeline	12 (2018) 50-60	0.435	Elsevier International
10.	Egyptian J of Petroleum	"Inhibition study of Erioglaucine disodium salt on carbon steel in HCl medium using weight loss, Electrochemical and Thermodynamic properties	July (2017) 7923 – (Elsevier)	1.441	International
11.	<i>J of Adv. Electrochemistry</i>	"Investigation of corrosion protection efficiency of Indigo carmine on Carbon steel in acidic environment	2(4) (2016) 126-129	(ISSN: 2455-0205),	International
12.	Asian Journal chemistry	Biomimic oxidation of pyridoxine by Peroxo complex: A kinetic and Mechanistic study	Vol.23, No. 1(2011)265-267	0.54	International
13.	Oxidation communication	Kinetics and Bio-Mimic oxidation studies of μ -peroxo complex with L-Leucine in aqueous medium	34, No.4,855-864(2011)	0.33	International
14.	Journal of photo chemistry and photobiology A:	Photophysical behavior of 4- hydroxy-3,5-dimethoxybenzoic acid in different solvent, pH and β -cyclodextrin	177(2006) 144-155.	3.26	International
15.	Indian Journal of Chemistry	Inclusion complex of 1,2,3- trihydroxybenzene with α - and β -cyclodextrin	Vol.23, No.23,No.1(2011),265-267	0.483	International

(b) PROCEEDING(S)

S. No .	Name of the author/s	Title of the paper	National/ International	Name of Conference	Page No & Year	ISBN
	Dr. A. Sekar	DFT studies on the Adsorption of CFC over the Copper Embedded Nitrogen Doped Graphene	International	International conference on Recent development in materials and chemical science	April 2019, volume 6, issue 4. (ISSN-2349-5162)	ISSN-2349-5162

17. **DETAILS OF PRESENTATION(S)**

(Conference(s) / Seminar(s))

S. No.	Name of the Paper	Name of the Conference / Seminar	National/ International	Place	Duration/ Date
1.	Adsorption and Quantum chemical studies of EDS as corrosion inhibitor for carbon steel	CSIR-CECRI Karaikudi Madurai Kamaraj University	International	Karaikudi	11.10.2017

18. **DETAILS OF PARTICIPATION**

S.No.	Name of the Conference	Conducted by	Place	Duration/ Date	National/ International
1.	International conference on chemistry in synergy with materials and biology	Bishop Heber college, Trichy	Trichy	10.01.2014 and 11.01.2014	International
2.	One day FDP on 'Impact of Research on Teaching in Higher Education'	Nehru Memorial College	Puthanam patti	11.06.2014	One day seminar
3	One day Workshop on Micro techniques in Practical Chemistry	Nehru Memorial College	Puthanam patti	11.12.2014	workshop
4.	Faculty Development Programme	Nehru Memorial College	Puthanam patti	5.08.2015	One day seminar
5.	Faculty Development Programme on Revisiting Examination system in the current scenario	UGC Autonomous Grant	Nehru Memorial College, Puthanam patti	19 th March 2016	One day seminar

6.	Adsorption and Quantum chemical studies of EDS as corrosion inhibitor for carbon steel	CSIR-CECRI Karaikudi	Karaikudi	11.10.2017	National
7.	Adsorption and Quantum chemical studies of Indigo carmine as corrosion inhibitor for carbon steel	Madurai Kamaraj University	Madurai	11-12-2018 & 12-12-2018	International