


## Dr. M. Senthilkumar - Academic Profile

<b>Name</b>		<b>Dr. M.Senthilkumar</b>		
<b>Designation</b>		<b>ASSOCIATE PROFESSOR and HOD</b>		
<b>Contact Information</b>		<b>ASSOCIATE PROFESSOR and HOD</b> , Department of Chemistry, Government College of Engineering , Dharmapuri - 636704		
<b>Mobile Number</b>		+919751778569	<b>E-mail</b>	<a href="mailto:senthilshrivi@gmail.com">senthilshrivi@gmail.com</a>
<b>Qualification</b>		<b>MSc., MPhil ., Ph.D.</b>	<b>Gender</b>	<b>Male</b>
<b>Education :</b>				
<b>S.No.</b>	<b>Degree</b>	<b>Institution / University</b>	<b>Year</b>	<b>Branch of Study / Specialization</b>
<b>1</b>	<b>B.Sc</b>	ANJA College, Sivakasi / Madurai Kamaraj University , Madurai	<b>1999</b>	CHEMISTRY
<b>2</b>	<b>M.Sc</b>	VHNSN College, Virudhunagar/ Madurai Kamaraj University , Madurai	<b>2001</b>	CHEMISTRY
<b>3</b>	<b>M.Phil</b>	VHNSN College, Virudhunagar/ Madurai Kamaraj University , Madurai	<b>2003</b>	CHEMISTRY
<b>4</b>	<b>Ph.D</b>	Alagappa University, Karaikudi	<b>2020</b>	CHEMISTRY
<b>Title of the Ph.D. Thesis</b>		<b>“ Synthesis, Characterization and Applications of Polymer Composite with Metal Nanoparticles ”</b>		
<b>Other Enlightenments</b>		i) <b>GATE Score in 2007 : 92.46</b> Percentile ii) Attended <b>Interview in BARC at Mumbai 2007</b> for Scientific Officer.		
<b><u>Present Career :</u></b>				
<ol style="list-style-type: none"> <li><b>1. BOARD OF STUDIES (BOS) ANNA UNIVERSITY NOMINEE from 2023 onwards</b></li> <li><b>2. Doctoral Committee Member through Anna University from 2024 onwards</b></li> <li><b>3. TRB Question Setter and Subject Expert for last Ten Years</b></li> <li><b>4. TNPSC Question Setter and Subject Expert for last Two Years</b></li> <li><b>5. DOTE Nominee for Chemistry Subject Expert to conduct the interview in Govt.Aided Polytechnic Colleges from 2023 onwards.</b></li> </ol>				
<b>Projects Completed</b>		TNSCST (TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY) funded minor project on <b>“ Photoluminescence of Rare Earth Elements ”</b>		

<b>Present Responsibilities</b>	1) HOD / Chemistry from 09.05.2023 at GCE , Dharmapuri to till Now 2) Chief Faculty Adviser from 09.05.2023 to till date at GCE , Dharmapuri 3) HOD in-charge of English from Oct. 2023 to till date at GCE , Dharmapuri
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**Experience:**

S.No.	Name of the College / Industry	Position Held	From	To	Total years
1	PMT College,Sankarankoil - 627953 ( P.G Department- M.Sc Students )	Lecturer	26.09.2003	14.06.2007	3 Years & 5 Months
2	Government College of Engineering, Salem- 11	Assistant Professor	14.03.2008	09.07.2009	1 Year & 4 Months
3	Government College of Engineering, Bargur - 635104	Assistant Professor	10.07.2009	11.07.2011	2 Years
4	Government College of Engineering, Salem -11	Assistant Professor	12.07.2011	13.07.2011	2 Days
5	Alagappa Chettiar Government College of Engineering and Technology, Karaikudi - 630003	Assistant Professor	14.07.2011	01.08.2013	2 Years
6	Government College of Engineering, Bodinayakkanur - 625582.	Assistant Professor	02.08.2013	23.05.2017	3 Years & 10 Months
7	Alagappa Chettiar Government College of Engineering and Technology, Karaikudi - 630003	Assistant Professor	24.05.2017	20.04.2023	5 Years & 11 months
8	Government College of Engineering, Dharmapuri - 636704.	Associate Professor	24.04.2023	Till Date	1 year 8 months
<b>Total Experience : 20 Years</b>					

### **Academic & Administrative responsibilities held in previous Institutions :**

- 1) HOD / Chemistry, ACGCET, KARAIKUDI from 12.10.2018 onwards to 20.04.2023.
- 2) Hostel Deputy Warden in ACGCET, KARAIKUDI from 2018 onwards to 20.04.2023.
- 3) Result Pass Board member in ACGCET (Autonomous), KARAIKUDI for Chemistry subject.
- 4) Board of Studies Member in ACGCET (Autonomous), KARAIKUDI for Chemistry subject.
- 5) Standing Committee member in ACGCET (Autonomous), KARAIKUDI for Chemistry subject.
  
- 6) HOD / Chemistry from 2013 -2017 at GCE, Bodinayakkanur
  
- 7) Chief Faculty Adviser from 2015 - 2017 at GCE, Bodinayakkanur

<b>Extra curricular activity &amp; Responsibilities in previous Institutions</b>	<p><b>8) NSS Programme Officer from 2012 -2017 for a period of 5 years</b> ( From 2012 to 2013 - ACGCET, KARAIKUDI &amp; From 2013 to 2017 - GCE, BODINAYAKKANUR )</p> <p><b>9) YRC and RRC Programme Officer from 2009 -2011 &amp; 2014 -2016 for the period of 4 years</b> ( 2008-2009 ,GCE,SALEM &amp; 2013-2016 ,GCE, BODINAYAKKANUR )</p>
<b>Other Responsibilities</b>	<p><b>10) DEPUTY WARDEN EXPERIENCE : 9 YEARS</b></p> <p>i) Deputy Warden from 2009 to 2011 for a period of 2 years (GCE , Bargur)</p> <p>ii) Deputy Warden from 2015 to 2017 for a period of 2 years (GCE, BODI)</p> <p>iii) Deputy Warden from July 2018 to 20.04.2023 for a period of 5 years ( ACGCET, KARAIKUDI )</p>

**List of publications: International Journals - 13**

S.No	Title of the paper	Name of the International Journal	Year of Publication	ISBN / ISSN
1	NbCl <sub>5</sub> -Catalyzed one- pot Four Component Synthesis of Spiro Pyrazole and Benzo (7,8) Chromene derivatives.	Chemistry Select, Vol 33, Issue 35,2018 pp.10027-10031doi/10.1002/slct.201802036	2018	2365-6549
2	Review on Biopolymers Based sodium Ion Batteries	Journal of Polymer Science and Applications	2020	2642-4169
3	Investigations of Chitosan $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> nanocomposite for Efficient Antibacterial Activity	Indian Journal of Applied Research, Vol.11, issue -08, DOI:https://www.doi.org/10.36106/ijar/1917953	2021	2249-555X
4	Facile synthesis of metal nanoparticle – loaded polymer nanocomposites with highly efficient an optically enhanced biocidal and anticancer agents	Journal of biomaterial Science polymer Vol.32, issue.17, pp.2210-2226,DOI:10.1080/09205063.2021.1962057	2021	1568-5624
5	In Situ synthesis and characterization of colloidal AuNp capped nano-chitosan containing poly (2,5-dimethoxyaniline) nanocomposites for biomedical applications	Journal of biomaterial Science polymer DOI : 10.1080/09205063.2022.2040407	2022	1568-5624
6	Performance evaluation of modified lab scale USAB reactor with different OLR in treating synthetic waste water	International Research journal of Engineering and technology	2022	e-2395-0056 P-2395-0072
7	Electrochemical Sensing of Arsenic Ions Using a Covalently Functionalized Benzotriazole-Reduced Graphene Oxide - Modified Screen-Printed Carbon Electrode	Chemistry Select, doi.org/10.1002/slct.202201169	2022	2365-6549
8	Electrochemical detection of 4-Nitrophenol Using A Screen-Printed	Chemistry Select, doi.org/10.1002/slct.202204418	2023	

	Carbon Electrode Modified by rod-Shaped Nickel Oxide Nanoparticles			
9	Nano –Pd/ Chitosan Composite:An Extremely Effective Catalyst to the synthesis of Pyrozolyl Analogues through Suzuki- Miyaura Cross in an Aqueous Medium-Coupling Reactions	Journal of chemistry, Volume 2023,Article ID 6594464,12 psges, doi.org/10.1155/6594464	2023	2090-9071
10	Covalently anchored benzimidazole-reduced graphene oxide as efficient electrochemical supercapacitor electrode material	J Mater Sci: Mater Electron (2023) 34: 2280	2023	1573-482X
11	Efficiency enhancement of perovskite – sensitized solar cell based on electrosponed titania nanofibres coated in organic – inorganic hybrid metal trihalide nano crystals	Journal of Optical materials I 40(2023) 113895	2023	0925-3467
12	Covalently incorporated heterocyclic benzotriazole –reduced graphene oxide as a high Performance electrochemical supercapacitor electrode	Journal of Materials Science and Engineering : B Volume 301, March 2024 117128	2024	0921-5107
13	Electrochemical sensing of aniline based on bio-inspired cauliflower shaped tin-oxide nanoparticle using Solanum trilobatum leaf extract	Inorganic Chemistry Communications 161 (2024) 112068	2024	1387-7003

### National Journals - 2

S. No	Title of the paper	Name of the National Journal	Year of Publications	ISBN / ISSN
1	Synthesis of Poly (2,5 -dimethoxyaniline) – SnO <sub>2</sub> nanocomposites and their structural, Optical and Electrochemical properties	J. Indian Chem. So., Vol. 96, January 2019, pp.81-84	2019	0019-4522
2	Removal of Cadmium and Lead from Synthetic Wastewater Using Natural Adsorbents through Fixed Bed Adsorption Column and Performance Evaluation by Kinetic Models B	National Conference on Recent Innovations in Structures and Environment - RISE' 22	2022	978-93-92537-05-9

## **Paper Presentations in International CONFERENCES : 10**

<b>S. No</b>	<b>Title of the paper</b>	<b>Name of the Journal</b>	<b>Year of Publications</b>	<b>ISBN /ISSN Number</b>
1	Photoluminescence Emission of Cerium Doped Yttrium Oxide Nanoparticles	International Conference on Recent Advances in Textile and Electrochemical Sciences	2013	978-82-920867-5-0
2	Electro-Optical Properties of 2,5 – dimethoxy polyaniline with Tin Oxide Nano Composites	A compendium of Research paper presented in the International Conference FACTs 2016	2016	978-81-928690-7-0
3	Optical and Conductivity properties of of 2,5 – dimethoxy polyaniline / tin oxide nano composites	A compendium of Research paper presented in the International Conference FACTs 2017	2017	978-81-928690-7-0
4	Synthesis of Properties of 2,5 – dimethoxy polyaniline Nanocomposites	2 <sup>nd</sup> International conference on Advances in New materials ICAN-2018	2018	1550047861321
5	Synthesis and characterization of Chitosan – Gold nanoparticles with PDMA hybrid composite	A compendium of Research paper presented in the International Conference FACTs 2019	2019	978-81-937479-3-3
6	Nano-Pd/Chitosan as a Highly Efficient Catalyst for the Suzuki reaction ,Reduction of 4-nitrophenol	International Virtual conference on Advances in Chemistry and Materials	2021	978-1-68653-894-8
7	Phosphor applications of Cerium doped yttrium oxide nanoparticles	International Conference on Research in Advanced Materials and its Applications-ICRAMA 2022	2022	978-93-93253-69-9
8	“Synergistic Effect In A-Fe <sub>2</sub> O <sub>3</sub> - Chitosan Nanocomposite With Enhanced Adsorption Of Methyene Blue Dye”	International Conference on Frontier Areas in Chemical Technologies-2022 (FACTs-2022)	2022	

9	Chitosan-A-Fe <sub>2</sub> O <sub>3</sub> /ZnO Hybrid Composite to Enhance Antibacterial Activity	2nd International Conference on Advanced Nanomaterials for Energy and Environmental Applications (ICANEE-2023)	2023	
10	Effect On Electrodeposition of Ni-Zn-SiO <sub>2</sub> Nanocomposite Coatings to Enhance the Corrosion Resistance As Compared to Ni-Zn Alloy	International Conference on “Innovative Green Materials for Sustainable Engineering” (IGMSE - 2023)	2023	
11	Isolation, Characterization and Anticancer Activity Of 7-O-Methyl Quercetin-3-O-(6''- Acetyl)-B-D-Glucoside from Nelumbo Nucifera Flowers	International Conference on New Trends in Science, Engineering, Technology and Management (ICNTSETM- 2024)	2024	978-81-19821-90-7

### **Paper Presentations in National CONFERENCES : 1**

S. No	Title of the paper	Name of the author	Name of the Journal	Year of Publications	ISBN /ISSN Number
1	Removal of cadmium and lead from synthetic water using natural adsorbents through fixed bed adsorption column and performance evaluation by kinetic modules	Dr.M.Senthilkumar	National Conference on RESENT INNOVATIONS IN STRUCTURES AND ENVIRONMENT (RISE' 22)	2022	978-93-92537-05-9

### **Guest Lectures delivered: 5**

### **Books Published: 01**

S.No	Name of the Author	Title of the Book	ISBN Number
1	M.SENTHILKUMAR	Competitive Inorganic chemistry	978-93-85364-02-0
2	M.SENTHILKUMAR	Chemistry Laboratory Manual	978-93-340-2994-9
3	Dr. R. Kavitha, Dr. M. Senthilkumar, Dr. M. Dhinesh Kumar	Engineering Chemistry	978-81-977917-8-9
4	M.SENTHILKUMAR	An Easy Approach to Group Theory in	978-93-340-4347-1

		Competitive Examinations	
5	M.SENTHILKUMAR	Simple Methods to Solve Quantum Mechanics	

**Programmes Conducted : 03**

S.No	Name of the Program	Name of the institution and Place	Year
1	SAHA SYMPOSIUM	ACGCET, KARAIKUDI	May 2022
2	SAHA SYMPOSIUM	Government College of Engineering Dharmapuri	July 2023
3	INDUCTION PROGRAMME	Government College of Engineering Dharmapuri	Sep 2023
4	INDUCTION PROGRAMME	Government College of Engineering Dharmapuri	Sep 2024

**FDP / Orientation / Refresher Course / Summer School / Winter School / Workshops Attended:12**

S. No	Name of Course	Place	Duration	Program me Sponsorin g Agency
1	“ One day international workshop Engineering in health care system ”	Government college of Engineering, Bodinayakkanur.	07/10/2016	GCE , BODI
2	Training Programme on “ Human Rights ”	Anna Institute of Management, Chennai.	07/02/2017 to 08/02/2017	Anna Institute of Management, Chennai
3	“ Three days workshop on Management capacity enhancement Programme ”	ACCET, Karaikudi.	24/03/2017 to 26/03/2017	SPFU, TEQIP II
4	Two week FDP on “ Thin film deposition and characterization (TFDC - 2017) ”	ACCET, Karaikudi.	21/11/2017 to 04/12/2017	AICTE-QIP
5	“ One week short term course on Frontiers in materials research for energy application ”	Thiagarajar college of Engineering,	11/12/2017	AICTE-QIP



		Madurai.	to 17/12/2017	
6	Modelling and Optimization Techniques for Engineering Applications	ACGCET, KARAIKUDI	12-11-2018 to 25-11-2018	AICTE-QIP
7	Three Weeks FDP on “ Mathematics for Engineering ”	ACGCET, KARAIKUDI	17-12-2018 To 30-12-2018	AICTE-QIP
8	Three Weeks Industrial Training on “ BASIC SCIENCE AND INDUSTRIAL TRAINING ”	BSNL, KARAIKUDI	08- 06-2020 to 26 – 06-2020	BSNL
9	Three Weeks Industrial Training	KOVILOOR, KARAIKUDI	08- 02-2021 to 03- 03-2021	Tamil Nadu Chemicals Products Ltd
10	Instrumentation Techniques and Advanced Materials	ANJA COLLEGE, SIVAKASI	21- 09-2021 to 25- 09-2021	UGC
11	“ Insights on Emerging Research in Chemical Science ( IERCS-2022 ) ”	NIT Andhra Pradesh	10.10.2022 To 14.10.2022	School of Chemistry NIT Andhra Pradesh
12	INNOVATION MENTOR – Capacity Building Program	GCE, Tirunelveli	Aug 28 <sup>th</sup> 2023 to Sep 02 <sup>nd</sup> 2023	StartupTN from Directorate Of Technical Education
13	Emotional Intelligence	Online NPTEL	22.01.2024 to 15.03.2024	NPTEL, IITM

**Place:** Dharmapuri

**Date :** 27.11.2024